

Appendix H

Summary Report for Upstream San Joaquin River Water Quality Data: 2005-2007

Sharon Borglin¹

Remie Burks¹

Chelsea Spier¹

Jeremy Hanlon¹

Justin Graham¹

Randy Dahlgren²

February, 2008

¹Environmental Engineering Research Program
School of Engineering & Computer Sciences
University of the Pacific
3601 Pacific Avenue, Sears Hall
Stockton, CA

²Land, Air, and Water Resources Department
University of California, Davis
Davis, CA

Introduction

This report summarizes water quality data from grab samples collected from 2005 through 2007 in the upstream San Joaquin River watershed by the Environmental Engineering Research Program (EERP). The grab samples were collected to determine overall water quality and algal growth in the San Joaquin River (SJR) upstream of the Deep Water Shipping Channel (DWSC) in Stockton, CA. In this report are tables of average, maximum, minimum, and standard deviation of all measured parameters for the 2005-2007 sampling period. This report is meant as a quick reference for overall water quality in the upper San Joaquin River watershed.

Methods

Table preparation

The data presented was analyzed in accordance to the EERP Quality Assurance Plan (Stringfellow, 2004) and the EERP Standard Operating Procedures (Borglin et al, 2008). Analysis methods for specific analytes are outlined below and are described in detail in Borglin et al. (2008) and Graham and Hanlon (2008). The specific references and methods for each analysis are listed in Table 1. Approximately 25% of the nutrient samples were split between UC Davis and EERP to increase confidence in the results and for QA purposes, however, only the results from UC Davis are listed in the tables. Multiple chlorophyll-*a* (chl-a) techniques are also shown. Results were summarized using the pivot table function in Excel, reporting the average, maximum, minimum, standard deviation, and number of samples collected at each site for the 2005-2007 sampling years. The report is organized with one table for each analyte, listing all sites visited during the sampling period. Data that did not pass QA or was otherwise determined inaccurate was removed prior to calculating averages. If the sample was not analyzed for a specific analyte the notation ‘na’ (not analyzed) was listed. If a site was analyzed only one time, ‘na’ was listed for the standard deviation value, as this cannot be calculated from one sampling point. Table 2 lists sites and locations for reference and Figure 1 shows the sampling area with sampling sites.

Data Quality Assurance and Quality Control

Each analytical group (UC Davis or EERP) have established Standard Operating Procedures (SOPs) (Borglin et al., 2005) for all routine analysis methods. The SOPs insure consistency in the analysis procedures, data reporting, and QC requirements. The SOPs were prepared by experienced analysts in collaboration with the QA/QC manager. The SOPs were kept in the analysis area and a master copy was kept on file. Daily laboratory work at the bench level was carried out according to these documents.

Data produced daily by analysts was recorded electronically and in a laboratory notebook. Electronic forms were used for entering data and calculation of results from the unknown samples and standards using calibration parameters. Preliminary review of data quality was completed by the analyst who confirmed that all standards and quality control samples met quality control guidelines. If the guidelines were not met, the analysis met with the QA/QC manager to identify the problem and the samples were then re-analyzed after remediation of any problems with analytical instrumentation, standards, calibration, or analysis procedures. Data that passed QC guidelines was then entered into the master spreadsheet.

Quality control procedures for each laboratory analysis, discrete field sampling events, and continuous field monitoring data collection include calibration of instruments with certified standards. Quality control samples were run in conjunction with unknown samples and, depending on the analysis, could include all or some of the following: calibration check standards, laboratory control samples, sampling and analytical duplicates, matrix spikes, and analytical blanks. In addition, analyses of performance test standards were conducted at a minimum of once a year to verify the proper working order of equipment, quality of reagents, analytical technique, and analytical methods.

Sampling and Field Water Quality Measurements

Field sampling consisted of collecting water samples, measuring water quality with a sonde, and recording of field conditions at sites within the study area. Prior to sampling, field equipment was calibrated and trip blanks were gathered and loaded into the sampling vehicles. Field sheets describing the sampling routine were disseminated before sampling to the sample crew and other pertinent individuals. Sampling was attempted at each site on the field sheets the day of sampling. At each site water and water quality measurements were collected. The samples were stored at 4°C after collection and returned to the lab for analysis.

The day before sample collection, YSI 6600 Sonde connected to YSI 650 MDS handset were calibrated at EERP following procedures in the YSI 6-Series Environmental Monitoring Systems Handbook (YSI Inc., Yellow Springs, CO). The sonde has several probes which were calibrated independently. Dissolved oxygen and depth were calibrated using the wet-towel method where the sonde was placed in a tube with a wet-towel around the sensors and calibrated in a water-saturated air environment. Specific conductance, measured with a temperature compensated electrical conductivity probe (EC), was calibrated using a 0.01D KCL conductivity standard with a value of 1408 μ S/cm (Radiometer Analytical SAS, Lyon, France). Temperature calibration is checked against a NIST certified thermometer. The pH probe was calibrated using standards of pH 4, pH 7, and pH 10 (VWR International, West Chester, PA). Oxidation-reduction potential (ORP) was calibrated with Zobell's solution (Ricca Chemical Company, Arlington, TX). The fluorescence probe output (for estimating chlorophyll) was recorded in Millipore water or 0 NTU water to account for drift. The turbidity probe was calibrated with three standards of 0 NTU or Millipore water, 40 NTU, and 200 NTU (HACH, Loveland, CO).

Each sampling day, the sonde was recalibrated for dissolved oxygen at the first site to correct for ambient barometric pressure. At each sampling location, water quality data was collected for at least 2 minutes using a sonde deployed in the sample water and programmed to measure and record every parameter every four seconds, providing a statistically significant sample size ($n > 30$). The data from the sonde was also recorded in the field notebook. The parameters measured by the sonde at each site included time, temperature (°C), specific conductance (mS/cm), total dissolved solids (g/L), dissolved oxygen (DO), DO concentration (mg/L), DO charge, depth (ft), pH, oxidation-reduction potential (mV), turbidity (NTU), chlorophyll content (mg/L), fluorescence, and barometric pressure (mmHg).

Light measurements were taken using a Model 3252 (LUX) Traceable® Dual-Display Light Meter (Control Company, Friendswood, TX). Water samples were collected in glass 1000 mL bottles (Wheaton Science Products, Millville, NJ), 1000 mL HDPE Trace-Clean narrow mouth plastic bottles (VWR International), 250 mL HDPE Trace-Clean wide mouth plastic bottles (VWR International), as well as 40 mL trace clean vials with PTFE septa (IChem, Rockwood, TN) in accordance with requirements for different lab analyses and volume requirements.

Bottles were labeled with the appropriate sample number, site name, and sampling date. All bottles were rinsed with sample water prior to collection of a depth-integrated sample. Some sites required a bucket to collect sample water because of accessibility from a high bridge or platform. For these sites, the bucket was pre-rinsed with sample water and sample bottles were filled using a rinsed funnel. Care was taken to distribute water simultaneously to all sample bottles (rather than sequentially). Samples were immediately stored at 4°C after sampling (cooler temperature was recorded in the lab upon delivery) and transported to the lab on the day of sampling. All bottle numbers, meter readings, and time in and out of the sample site were recorded in the field notebook.

Post field activities included cleaning and storing all field equipment and post-calibrating the sondes to account for drift during the sampling day. Post-calibration consisted of checking the sonde value to that of the standard value and was completed within twenty-four hours of the sampling event. After post-calibration sondes were cleaned and stored with a small amount of water in the calibration cup to prevent drying of the DO membrane.

Sample preparation and processing

Samples were received by the laboratory the same day they were sampled, logged in and inspected for damage, and stored at 4°C until filtering and analysis. Samples were filtered and preserved if necessary within 24 hours of collection. Archive filtrate and unfiltered samples were saved from all sites for any needed re-analysis or additional analysis that may be determined necessary. Samples were analyzed in laboratories at both EERP and UC Davis, and the procedures are described separately below.

Samples were collected, preserved, stored, and analyzed by methods outlined in *Standard Methods for the Analysis of Water and Wastewater* (APHA, 2005, 1998), unless otherwise indicated. Certified standards, trace clean and certified sample bottles, reagent grade chemicals, and high purity water produced by a Milli-Q gradient system (Millipore, Billerica, MA) were used for all analyses. Reused glassware was cleaned thoroughly within warm water with Alconox detergent, rinsed with 10% HCl, and rinsed a minimum of 5 times with high purity deionized water.

UC Davis

Samples for dissolved nitrate, ammonia, and phosphate ($\text{NO}_3\text{-N}$ and soluble $\text{NH}_4\text{-N}$ and $\text{PO}_4\text{-P}$) were filtered through a pre-rinsed, 0.22 μm polycarbonate membrane (Millipore IsoporeTM). $\text{NO}_3\text{-N}$ and soluble $\text{NH}_4\text{-N}$ were quantified simultaneously using an automated membrane diffusion/conductivity detection method (Carlson, 1978, 1986; Carlson et al., 1990). Total nitrogen was determined by the same method from unfiltered sample following persulfate oxidation (Yu et al., 1994) using a 1% persulfate oxidant concentration, a sample:oxidant ratio of 1:1 (V/V), and heating in an autoclave. The limit of detection for this method was 50 ppb N.

Ortho-phosphate ($\text{PO}_4\text{-P}$) was determined on the filtrate using the stannous chloride method. (SM 4500-P.D). The limit of detection for this method is approximately 3 ppb $\text{PO}_4\text{-P}$ in clean water using a 1 cm cell for measurement. Total phosphorus (Tot P) was analyzed on unfiltered samples by the same method after digestion. To digest, 5.0 mL of each sample was aliquotted into trace clean, 5.0 mL digestion reagent (10 g potassium persulfate, 6 g boric acid, and 3 g NaOH in 1000mL Millipore water) was added, and then was autoclaved for 1 hour. After cooling, Tot P was determined using the stannous chloride method as described above.

Filters were used in the analysis of chlorophyll pigments, particulate organic matter (samples sent to USGS for analysis), total suspended solids and volatile suspended solids (TSS/VSS), and phospholipid fatty acid analysis (PLFA). Sample for NO₃-N, PO₄-P, and dissolved organic carbon (DOC) were filtered through 47mm Whatman GF/F filters (0.7µm pore size) for the collection of filterable solids. Filters used for TSS/VSS analysis were pre-rinsed with high purity water (Milli-Q gradient, Millipore, Billerica, MA). All filters were pre-combusted for 6 hours at 550°C prior to filtering. Sample bottles were shaken thoroughly before filtration and sample bottle weights were recorded before and after the sample was filtered and the difference was recorded as the filtered sample weight. Samples for dissolved Si (SiO₄-Si) were filtered through a pre-rinsed 0.45µm pore size cellulose luer-lock syringe filter (Nalgene, Rochester, NY) within 24 hours of collection and stored at 4°C until analysis.

Unfiltered samples were analyzed for biochemical oxygen demand (BOD) by Standard Method (SM) 5210 B (APHA, 2005) with a modification for measurement of oxygen demand at 10 days rather than 5 days. Previous studies in the SJR have used 10-day BOD analysis as a standard procedure and this data set will be consistent with prior studies. BOD was measured without seed, as in previous studies. Initial and final dissolved oxygen was measured using a calibrated YSI 5000 DO meter equipped with a YSI 5010 BOD probe (Yellow Springs, OH) and calibrated by Winkler titration according to SM 10200 H (APHA, 2005). Duplicate samples were prepared every 20 analyses and blanks consisted of BOD buffer solution prepared according to SM 5210 B. All samples were analyzed at both full concentration and diluted 100 mL of sample to 200 mL of BOD buffer solution to increase the number of reportable results. All BOD analyses were initiated within 24 hours of sample collection. A standard curve was prepared for each sample set consisting of a BOD standard solution (HACH, Loveland, CO) containing glucose and glutamic acid at 1, 2, 3, and 4 mg/L in dilution buffer with 5 mL of seed from a randomly selected sample. In addition, carbonaceous BOD (CBOD) was determined by adding 0.16 mg of nitrification inhibitor (N-serve, HACH, Loveland, CO) to a duplicate sample set. The resulting CBOD was subtracted from the total BOD to determine the nitrogenous BOD (NBOD). The limit of detection for BOD, CBOD, and NBOD is 1.0mg/L.

Total organic carbon (TOC), inorganic carbon (IC), and DOC were analyzed on a Teledyne-Tekmar Apollo 9000 (Mason, OH) by high temperature combustion according to SM 5310 B (APHA, 2005) and quantified using a NDIR detector. TOC and IC were analyzed on unfiltered samples and DOC was analyzed on filtered samples. This machine was equipped with an auto-sampler that allows for continuous stirring of sample. Both DOC and TOC samples were preserved at less than pH 2 with concentrated H₃PO₄ and stored at 4°C until analysis. IC samples were collected in the field into vials preserved with no head space, 5-10 mg CuSO₄ powder, and stored at 4°C until analysis. Samples were analyzed within 28 days of collection. The limit of detection for TOC and DOC is 1.00mg/L C and for IC it is 5.00mg/L.

Total suspended solids (TSS) and volatile suspended solids (VSS) were analyzed by SM 2540 D and E (APHA, 2005). Typically 1000 mL of sample was filtered on pre-weighed, pre-combusted, Whatman GF/F filters. The filters were placed in an aluminum dish and dried at 105°C under vacuum to constant weight. After drying the filter and dish were allowed to cool in a dessicator and were weighed for TSS determination. The dried and weighed filters were subsequently combusted at 550°C for 6 hours and reweighed for VSS determination. Mineral suspended solids (MSS) concentration was calculated by subtracting VSS from TSS.

Chlorophyll-*a* (chl-*a*) and pheophytin-*a* (pha-*a*) were extracted and analyzed using UV absorption as described in SM 10200 H (APHA, 2005). Both the trichromatic chl-*a* and the pha-*a* methods were used for quantification. Approximately 1000 mL of samples were filtered using a vacuum filtration onto a Whatman GF/F filter within 24 hours of sample collection. The sample was kept in the dark during storage and filtration. After the water was removed saturated MgCO₃ was applied to the sample on the filter and the filter was stored at -20°C for up to 21 days before analysis. Extraction was performed by grinding the filter with a Teflon tissue grinder in acetone saturated with 10% by weight MgCO₃. The extracted sample was centrifuged for 20 minutes at 2000 rpm and the chl-*a* and pha-*a* was quantified by measurement of the supernatant on a Perkin Elmer Lambda 35 spectrometer (PE Spec) using a 5 cm path length (Wellesley, MA).

Total protein was quantified in all the samples using the Lowry method (Pierce Biosciences, Rockford, IL). The analysis was scaled up from the standard kit so the analysis was performed on 1 mL samples and analyzed in cuvettes with a 5 cm path length. Standard curves were made using bovine albumin from Pierce Biosciences (Rockford, IL). Samples were frozen within 24 hours of collection and defrosted prior to analysis. The limit of detection for this analysis is 0.5 mg/L protein.

Alkalinity was measured on samples within 24 hours of sample collection by titration of a 50 mL sample with 0.02 N H₂SO₄ to an endpoint of pH 8.3 and 4.5. The samples were stirred continuously during titration. Quality control included analysis of two independent alkalinity standards, one from HACH (Loveland, CO) and the other from ERA (Arvada, CO), to insure proper preparation of the titrating solution and calibration of the pH probe. The limit of detection for this method is 2.0 mg/L CaCO₃.

Total Iron (Tot Fe) was measured using a reaction with phenanthroline according to SM 3500-Fe B using FerroVer reagents purchased from HACH (Loveland, CO). Within 24 hours of sample collection, 6 mL aliquots of unfiltered sample was placed in 15 mL disposal centrifuge tubes and stored at -20°C for later quantification of Tot Fe. Prior to analysis, the samples were defrosted and 1 mL of sample was removed and used to measure the background absorbance of the water sample at 510 nm on the PE Spec. Total Fe was measured on the remaining 5 mL of unfiltered sample by the addition of pre-made HACH FerroVer phenanthroline reagent and measurement at 510 nm. The background sample absorbance was subtracted from the sample absorbance with reagent added. The limit of detection for this method is 0.05mg/L Fe.

At EERP, for QA purposes, total ammonia nitrogen (Tot NH₄-N), dissolved nitrate (NO₃-N), and total nitrogen (TN) were quantified using the TL-2800 ammonia analyzer made by Timberline Instruments (Boulder, CO). The Tot NH₄-N analysis was performed on unfiltered samples that were frozen within 24 hours of collection. The reportable limit for this method is 0.045 mg/L NH₄-N. The NO₃-N analysis was performed on filtered samples that were frozen within 24 hours of collection. The reportable limit for this method is 0.08 mg/L NO₃-N. The TN analysis was performed on digested unfiltered samples that were frozen within 24 hours of collection. To digest samples, 5.0 mL of each sample was aliquotted into trace clean 16x150 glass tubes with PTFE lined caps (VWR International), 5.0 mL digestion reagent was then added (10 g potassium persulfate, 6 g boric acid, and 3 g NaOH in 1000mL Millipore water), and samples were autoclaved in a Tuttnauer Brinkman autoclave (Westbury, NY). After cooling, TN was determined using the nitrate electrode method as described above. The reportable limit for this method is 0.14 mg/L TN.

Dissolved Si ($\text{SiO}_2\text{-Si}$) concentration was determined using a modified Heteropoly Blue molybdate-silicate method (modified SM 4500-SiO₂ D) using Hach reagents (Loveland, CO). Dissolved Si was measured in filtered samples at both 650 and 815 nm using the PE Spec. The reportable limit for this method is 0.05 mg/L $\text{SiO}_2\text{-Si}$.

At EERP, for QA purposes, dissolved ortho-phosphate ($\text{PO}_4\text{-P}$) was quantified in filtered samples by the ascorbic acid method (adapted from SM 4500-P-E) using HACH PhosVer3 packets (Loveland, CO) and measured at 890 nm on the PE Spec. The reportable limit for this method was 18 $\mu\text{g/L}$ $\text{PO}_4\text{-P}$. Total phosphorus (Tot-P) was determined on 5.0 mL of unfiltered sample by persulfate digestion and colorimetric determination by the ascorbic acid method (adapted from SM 4500-P B, E). To digest samples, 5.0 mL of each sample was aliquotted into trace clean 16x150 glass tubes with PTFE lined caps (VWR International), 5.0 mL digestion reagent was then added (10 g potassium persulfate, 6 g boric acid, and 3 g NaOH in 1000mL Millipore water) and samples were autoclaved in a Tuttnauer Brinkman autoclave (Westbury, NY). After digestion and sample cooling, the total phosphorus concentrations were determined spectrophotometrically using HACH PhosVer3 packets (Loveland, CO) on the PE Spec. The limit of detection for this analysis was 6.0 ppb Tot-P.

Results

The data shown in these tables represents 2054 grab samples from 110 sampling sites analyzed for up to 43 analytes. For the nutrient analysis, due to the importance of these measurements, the samples were split between UC Davis and EERP to gain confidence in the analysis. Sample splitting was also very useful for method development and QA/QC of the results. If the separate analyses were significantly different, it was often possible to perform re-analysis to resolve correct values. For chlorophyll, sonde measurements in the field were recorded at the time of sampling and were used to compare to analysis on the whole water samples. Because the two methods measure chlorophyll differently it was a successful method for confirming chlorophyll concentration in the river.

References

- American Public Health Association, 2005. Standard Methods for the Examination of Water and Wastewater. American Public Health Association, Washington, D.C.
- Borglin, S., R. Burks, J. Hanlon, C. Spier, J. Graham and W. Stringfellow, 2008. Standard Operation Procedures for the Up-Stream Dissolved Oxygen TMDL Project. Ernest Orlando Lawrence Berkeley National Laboratory Report No. LBNL/PUB-937. Stockton, CA, Environmental Engineering Research Program.
- Carlson, R.M., 1978. Automated separation and conductimetric determination of ammonia and dissolved carbon dioxide. *Anal. Chem.* 50:1528-1531.

Carlson, R.M., 1986. Continuous flow reduction of nitrate to ammonia with granular zinc. *Anal. Chem.* 58:1590-1591.

Carlson, R.M., R. Cabrera, J. Paul, J. Quick and R.Y. Evans, 1990. Rapid direct determination of ammonium and nitrate in soil and plant tissue extracts. *Comm. Soil Sci. Plant Anal.* 21:1519-1530.

Graham, J. and J. Hanlon, 2008. Environmental Engineering Research Program field Standard Operation Procedures. Environmental Engineering Research Program, Stockton, CA.

Stringfellow, 2004. Up-Stream Dissolved Oxygen TMDL Project (ERP-02D-P63)_Quality Assurance Project Plan. Environmental Engineering Research Program, Stockton, CA.

Table 1: List of analytes included in the 2007 summary report			
Analyte	Page	Method	Reference
Spec Cond mS/cm	15	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
TDS g/L	17	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
DO mg/L	19	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
pH	21	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
ORP mV	23	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
Turbidity	25	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
Sonde Chl-a TriC ug/L	27	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
Sonde Chl-a SM ug/L	29	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
LUX (lumen /m ²)	31	field	Graham, J. and J. Hanlon, EERP field SOP, Jan 2008
Chl-a SM ug/L	33	SM 10200 H-2b	Borglin et al, 2008; APHA, 2005
Chl-a TC ug/L	35	SM 10200 H-2b	Borglin et al, 2008; APHA, 2005
Pheophytin SM ug/L	37	SM 10200 H-2b	Borglin et al, 2008; APHA, 2005
4.5 Alk, mg CaCO ₃ /L	39	SM 2320 B	Borglin et al, 2008; APHA, 2005
8.3 Alk, mg CaCO ₃ /L	41	SM 2320 B	Borglin et al, 2008; APHA, 2005
BOD ₁₀ mg/L	43	SM 5210 B M	Borglin et al, 2008; APHA, 2005
CBOD ₁₀ mg/L	45	SM 5210 B M	Borglin et al, 2008; APHA, 2005
NBOD ₁₀ mg/L	47	SM 5210 B M	Borglin et al, 2008; APHA, 2005
Total Organic Carbon, mg/L	49	EPA 415.1	Borglin et al, 2008; APHA, 2005
Dissolved Organic Carbon, mg/L	51	EPA 415.1	Borglin et al, 2008; APHA, 2005
Inorganic Carbon, mg/L	53	Tekmar	Tekmar
Total Protein	55	Lowry	Borglin et al, 2008; APHA, 2005
TSS, mg/L	57	SM 2540 B	Borglin et al, 2008; APHA, 2005
VSS, mg/L	59	SM 2540 E	Borglin et al, 2008; APHA, 2005
Total N mg/L, UCD	61	potentiometric	Carlson (1978, 1986, 1990)
NH ₃ -N, mg/L, UCD	63	potentiometric	Carlson (1978, 1986, 1990)
NO ₃ -N, mg/L, UCD	65	potentiometric	Carlson (1978, 1986, 1990)
Total P mg/L, UCD	67	EPA 365.2	APHA, 2005
PO ₄ -P mg/L, UCD	69	SM 4500-P E	APHA, 2005
Total Fe mg/L	71	SM 3500-Fe DM	Borglin et al, 2008; APHA, 2005
Na mg/L	73	EPA 300.0	APHA, 2005
K mg/L	75	EPA 300.0	APHA, 2005
Mg mg/L	77	EPA 300.0	APHA, 2005
Ca mg/L	79	EPA 300.0	APHA, 2005
Cl mg/L	81	EPA 300.0	APHA, 2005
SO ₄ mg/L	83	EPA 300.0	APHA, 2005
Br mg/L	85	EPA 300.0	APHA, 2005
Si mg/L	87	Borglin et al, 2008	Borglin et al, 2008
254 um	89	SM 4500-Si D	Borglin et al, 2008

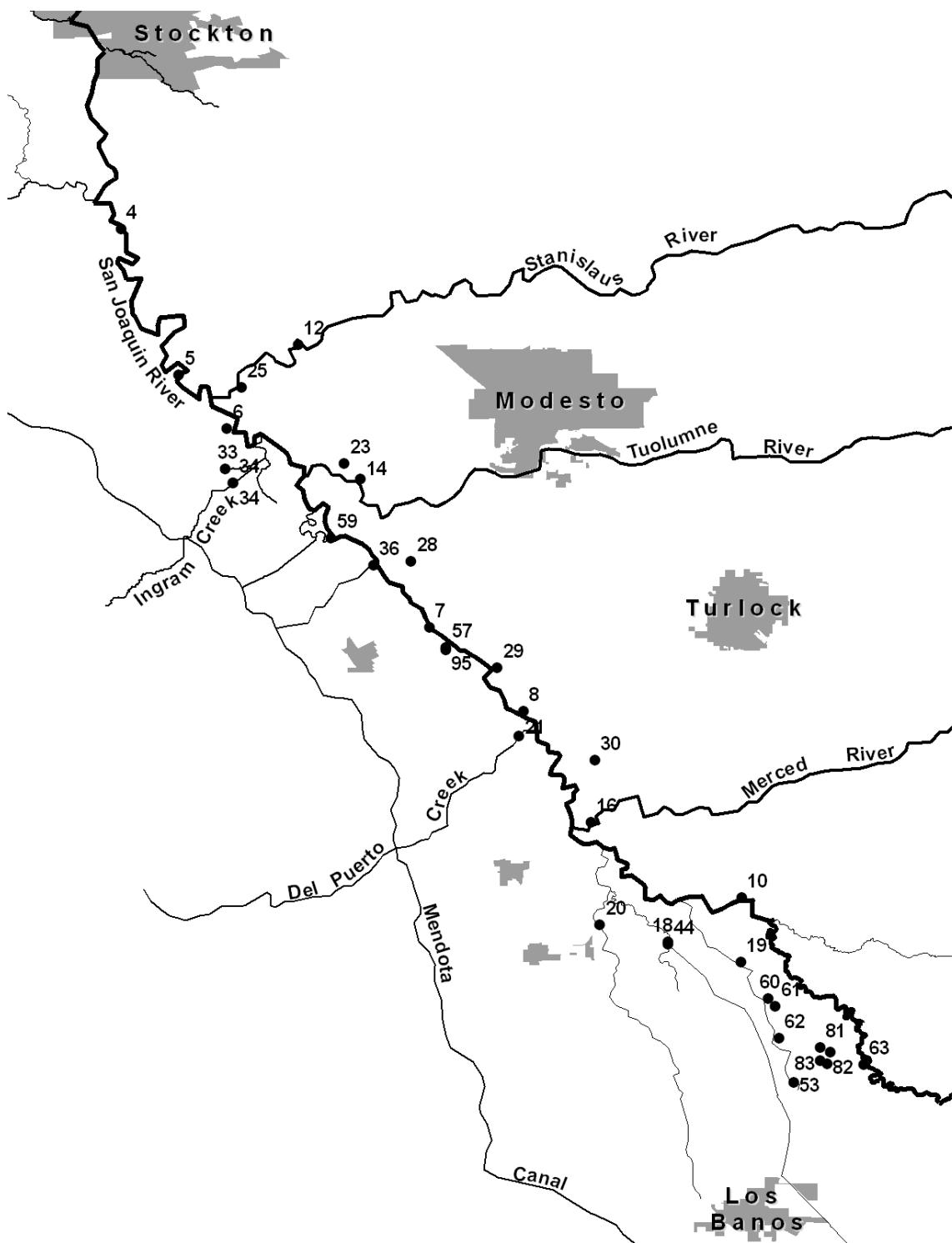
Table 1: EERP Site List

DO Number	Site Name	Type
1	SJR at Channel Point	Intermittent
2	SJR at Dos Reis Park (Lathrop)	Intermittent
3	SJR at Old River	Intermittent
4	SJR at Mossdale	Core sites
5	SJR at Vernalis-McCune Station (River Club)	Core sites, BMP
6	SJR at Maze	Core sites, BMP
7	SJR at Patterson	Core sites, BMP
8	SJR at Crows Landing	Core sites, BMP
9	SJR at Fremont Ford	Intermittent
10	SJR at Lander Avenue	Core sites
11	French Camp Slough	Intermittent
12	Stanislaus River at Caswell Park	Core sites
13	Stanislaus River at Ripon	Intermittent
14	Tuolumne River at Shiloh Bridge	Core sites
15	Tuolumne River at Modesto	Intermittent
16	Merced River at River Road	Core sites
17	Merced River near Stevenson	Intermittent
18	Mud Slough near Gustine	Core sites, Wetland
19	Salt Slough at Lander Avenue	Core sites, Wetland
20	Los Banos Creek Flow Station	Core sites, Wetland
21	Orestimba Creek at River Road	Core sites, BMP
22	Modesto ID Lateral 4 to SJR	Intermittent
23	Modesto ID Lateral 5 to Tuolumne	Core sites
24	Modesto ID Lateral 6 to Stanislaus River	Intermittent
25	Modesto ID Main Drain to Stan. R. via Miller Lake	Core sites
26	Turlock ID Highline Spill	Intermittent
27	Turlock ID Lateral 2 to SJR	Intermittent
28	Turlock ID Westport Drain Flow station	Core sites
29	Turlock ID Harding Drain	Core sites
30	Turlock ID Lateral 6 & 7 at Levee	Core sites
31	BCID - New Jerusalem Drain	Intermittent
32	EI Solyo WD - Grayson Drain	Intermittent, BMP
33	Hospital Creek	Intermittent, BMP
34	Ingram Creek	Core sites, BMP
35	Westley Wasteway Flow Station	Intermittent, BMP
36	Del Puerto Creek Flow Station	Core sites, BMP
37	Newman Wasteway at SJR	Intermittent
38	Marshall Road Drain	Intermittent, BMP
39	Salado Creek Flow Station	Intermittent, BMP
40	Patterson Irrigation District Diversion	Diversion
41	West Stanislaus Irrigation District Diversion	Diversion

DO Number	Site Name	Type
42	Banta Carbona Irrigation District Diversion	Diversion
43	EI Solyo Water District Diversion	Diversion
44	San Luis Drain End	Core sites
45	Volta Wasteway at Ingomar Grade	Intermittent
46	Mud Slough at Gun Club Road	Intermittent, Wetland
47	Delta-Mendota Canal inlet to the Mendota Pool	Intermittent, BMP
48	San Luis Drain Site A	Intermittent
49	FC-5 - Grassland Area Farmers	Intermittent
50	PE-14 - Grasslands Area Farmers	Intermittent
51	Arroyo Canal	Intermittent
52	Salt Slough at Sand Dam	Intermittent
53	Salt Slough at Wolfsen Road	Wetland
54	Los Banos Creek at Ingomar Grade	Intermittent
55	Modesto WWTP	NPDS
56	Turlock WWTP	NPDS
57	Ramona Lake Drain	Core sites, BMP
58	San Luis Drain Site B	Intermittent
59	SJR Laird Park	Core sites
60	Moffit 1 South	Wetland
61	Deadmans Slough	Wetland
62	Mallard Slough	Wetland
63	Inlet C Canal	Wetland
64	Moran Drain	Intermittent
65	Spanish Grant Drain	Intermittent, BMP
66	ESWD Maze Blv. Drain	Intermittent, BMP
67	Newman Wasteway at Brazo Road	Intermittent
68	S-Lake Basin	Wetland
69	Santa Fe Canal	Intermittent
80	South Marsh-1-Inlet	Wetland
81	South Marsh-1-Outlet	Wetland
82	South Marsh-3-Inlet	Wetland
83	South Marsh-3-Outlet	Wetland
84	SJR at Highway 4 (Garwood Bridge Charter Way)	Intermittent
85	SJR Hills Ferry	Intermittent
86	Ramona drain Apple Ave	BMP
87	Ramona drain Prune Ave	BMP
88	Ramona drain Apricot Ave	BMP
89	Ramona drain Pomelo Ave	BMP
90	Ramona drain Almond Ave	BMP
91	Paradise drain Prune Ave	BMP
92	Paradise drain Apricot Ave	BMP
93	Paradise drain Pomelo Ave	BMP
94	Paradise drain Almond Ave	BMP

DO Number	Site Name	Type
95	Ramona drain at Ramona Lake	BMP, Intermittent
96	WPF-VD-1	BMP
97	WPF-VD-2	BMP
98	WPF-VD-3	BMP
99	WPF-VD-4	BMP
100	WPF-VD-5	BMP
101	WPF-UD-IN	BMP
102	WPF-UD-OUT	BMP
103	SLD Check 18	Intermittent
104	SLD Check 16	Intermittent
105	SLD Check 15	Intermittent
106	SLD Check 14	Intermittent
107	SLD Check 13	Intermittent
108	SLD Check 12	Intermittent
109	SLD Check 11	Intermittent
110	SLD Check 10	Intermittent
111	SLD Check 9	Intermittent
112	SLD Check 8	Intermittent
113	SLD Check 7	Intermittent
114	SLD Check 6	Intermittent
115	SLD Check 5	Intermittent
116	SLD Check 4	Intermittent
117	SLD Check 3	Intermittent
118	SLD Check 2	Intermittent
119	SLD Check 1	Intermittent
120	South Marsh-1-Intermediary	Wetland
121	South Marsh-1-East	Wetland
122	South Marsh-1-West	Wetland
123	Ramona Lake NW Quad	BMP
124	Ramona Lake NE Quad	BMP
125	Ramona Lake SW Quad	BMP
126	Ramona Lake SE Quad	BMP
127	SJR at Brant Bridge	Intermittent
128	SJR Brickyard Site	Intermittent
129	Hollow Tree drain	Wetland
130	Marshall Reservoir inlet	BMP
131	Marshall Reservoir outlet	BMP
132	Marshall RR Pond-1-West	BMP
133	Marshall RR Pond-2-East	BMP
135	MID Main Drain Spill	Intermittent

Figure 1: Sampling locations in the San Joaquin River Watershed.



Specific conductivity

DO site number	Site name	Average of Spec Cond mS/cm	Max of Spec Cond mS/cm	Min of Spec Cond mS/cm	StdDev of Spec Cond mS/cm	Count of Spec Cond mS/cm
1	SJR at Channel Point	0.471	0.483	0.458	0.018	2
2	SJR at Dos Reis Lathrop	0.508	0.511	0.505	0.004	2
3	SJR at Old River	0.524	0.525	0.523	0.002	2
4	SJR at Mossdale	0.478	0.811	0.042	0.229	65
5	SJR at Vernalis	0.475	0.801	0.094	0.213	76
6	SJR at Maze	0.656	1.077	0.104	0.303	69
7	SJR at Patterson	0.852	1.560	0.117	0.391	79
8	SJR at Crows Landing	0.881	1.658	0.002	0.397	84
9	SJR at Fremont Ford	1.314	1.614	0.986	0.227	5
10	SJR at Lander Avenue	0.901	1.672	0.049	0.485	83
11	French Camp Slough	0.476	0.736	0.099	0.253	7
12	Stanislaus River at Caswell Park	0.095	0.415	0.059	0.046	67
13	Stanislaus River at Ripon	0.104	0.104	0.104	na	1
14	Tuolumne River at Shiloh Bridge	0.148	0.494	0.041	0.089	68
16	Merced River at River Road	0.152	0.569	0.036	0.113	67
17	Merced River near Stevenson	0.039	0.039	0.039	na	1
18	Mud Slough near Gustine	2.642	4.707	1.118	0.943	77
19	Salt Slough at Lander Avenue	1.228	2.379	0.499	0.343	105
20	Los Banos Creek at Highway 140	1.371	3.154	0.499	0.579	68
21	Orestimba Creek at River Road	0.668	1.192	0.090	0.265	63
22	Modesto ID Lateral 4 to SJR	0.171	0.292	0.046	0.114	6
23	Modesto ID Lateral 5 to Tuolumne	0.124	0.536	0.030	0.115	29
24	Modesto ID Lateral 6 to Stanislaus River	0.064	0.068	0.061	0.005	2
25	MID Main Drain to Stan. R. via Miller Lake	0.335	0.968	0.065	0.150	40
26	Turlock ID Highline Spill	0.040	0.042	0.038	0.003	2
27	Turlock ID Lateral 2 to SJR	0.131	0.243	0.054	0.077	5
28	Turlock ID Westport Drain Flow Station	0.668	1.189	0.140	0.260	50
29	Turlock ID Harding Drain	0.694	1.227	0.298	0.224	65
30	Turlock ID Lateral 6 & 7 at Levee	0.641	1.511	0.366	0.223	36
31	BCID - New Jerusalem Drain	2.423	2.550	2.156	0.128	8
32	EI Solyo WD - Grayson Drain	0.850	1.365	0.425	0.381	6
33	Hospital Creek	0.495	1.241	0.146	0.283	17
34	Ingram Creek Flow Station	0.982	2.030	0.247	0.413	44
35	Westley Wasteway Flow Station	0.642	0.814	0.547	0.087	8
36	Del Puerto Creek Flow Station	0.876	1.441	0.338	0.302	58
38	Marshall Road Drain	0.848	1.369	0.449	0.340	7
39	Salado Creek Flow Station	1.246	1.458	1.075	0.162	4
43	EI Solyo Pumping Station	0.533	0.533	0.533	na	1
44	San Luis Drain End	4.401	5.706	3.089	0.578	76
45	Volta Wasteway at Ingomar Grade	0.838	1.430	0.325	0.420	11
46	Mud Slough at Gun Club Road	1.830	3.491	0.821	0.931	11
47	Delta-Mendota Cal Hwy 140	0.489	0.556	0.414	0.071	3
48	FC-5 Grasslands Area Farmers	5.165	5.165	5.165	na	1
49	PE-14-Grasslands Area Farmers	5.908	5.908	5.908	na	1
50	San Luis Drain Site A (Check 18)	4.748	5.437	4.028	0.705	3
51	Arroyo Cal at Hwy 152	1.153	1.221	1.084	0.097	2
52	Salt Slough at Sand Dam	0.872	1.010	0.726	0.142	3
53	Salt Slough at Wolfsen Road	1.311	2.033	0.811	0.324	29
54	Los Banos Creek at Ingomar Grade	0.680	0.680	0.680	na	1
57	Ramona Lake Drain at Levee	1.357	1.943	0.957	0.262	30
59	SJR Laird Park	0.592	0.958	0.149	0.274	17
60	Moffit 1 South	1.002	1.640	0.530	0.352	20
61	Deadman's Slough	1.150	2.019	0.566	0.463	26
62	Mallard Slough	1.630	5.984	0.594	1.177	22
63	Inlet C Canal	0.729	1.551	0.357	0.305	26

DO site number	Site name	Average of Spec Cond mS/cm	Max of Spec Cond mS/cm	Min of Spec Cond mS/cm	StdDev of Spec Cond mS/cm	Count of Spec Cond mS/cm
64	Moran Drain	0.739	0.950	0.434	0.217	6
65	Spanish Grant Drain	0.865	1.332	0.505	0.313	7
66	ESWD Maze Blv. Drain	0.488	0.543	0.417	0.052	4
67	Newman Wasteway at Brazo Road	1.155	1.740	0.602	0.382	7
68	S. Lake Basin	2.022	3.240	0.467	1.275	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	0.718	1.392	0.370	0.276	18
81	South Marsh 1 Outlet	0.718	1.346	0.379	0.231	21
82	South Marsh 3 Inlet	1.091	1.729	0.427	0.301	25
83	South Marsh 3 Outlet	1.127	1.839	0.634	0.275	28
84	SJR Garwood Bridge	0.513	0.513	0.513	na	1
86	Ramona Drain Apple Ave	1.222	1.594	0.662	0.268	9
87	Ramona Drain Prune Ave	0.790	1.024	0.658	0.204	3
88	Ramona Drain Apricot Ave	1.243	1.733	0.438	0.405	9
89	Ramona Drain Pomelo Ave	0.959	1.297	0.619	0.339	3
90	Ramona Drain Almond Ave	1.186	1.186	1.186	na	1
91	Paradise Drain Prune Ave	0.355	0.355	0.355	na	1
92	Paradise Drain Apricot Ave	1.445	3.053	0.815	0.747	7
93	Paradise Drain Pomelo Ave	1.684	3.008	0.809	1.166	3
94	Paradise Drain Almond Ave	1.467	2.958	0.773	0.703	7
95	Ramona Lake Entrance	1.546	2.372	0.894	0.391	17
96	WPF-VD-1	0.391	0.391	0.391	na	1
97	WPF-VD-2	0.426	0.426	0.426	na	1
98	WPF-VD-3	0.414	0.414	0.414	na	1
101	WPF-UD-IN	0.724	1.058	0.390	0.473	2
102	WPF-UD-OUT	0.686	0.980	0.393	0.416	2
103	SLD Check 18	4.364	4.794	3.934	0.608	2
104	SLD Check 16	4.526	4.888	4.165	0.511	2
105	SLD Check 15	4.593	4.922	4.264	0.465	2
106	SLD Check 14	4.570	4.968	4.171	0.564	2
107	SLD Check 13	4.541	4.969	4.114	0.605	2
108	SLD Check 12	4.567	4.946	4.187	0.537	2
109	SLD Check 11	4.553	5.053	4.052	0.708	2
110	SLD Check 10	4.571	4.910	4.231	0.480	2
111	SLD Check 9	4.494	4.636	4.352	0.201	2
112	SLD Check 8	4.392	4.538	4.246	0.206	2
113	SLD Check 7	4.377	4.440	4.315	0.088	2
114	SLD Check 6	4.323	4.516	4.129	0.274	2
115	SLD Check 5	4.441	4.472	4.411	0.043	2
116	SLD Check 4	4.467	4.727	4.207	0.368	2
117	SLD Check 3	4.641	4.762	4.520	0.171	2
118	SLD Check 2	4.499	4.500	4.498	0.001	2
119	SLD Check 1	4.558	4.582	4.534	0.034	2
120	South Marsh 1 Intermediary	0.648	0.957	0.378	0.230	11
121	South Marsh 1 East	0.656	0.959	0.388	0.240	10
122	South Marsh 1 West	0.782	1.189	0.453	0.216	9
123	Ramona Lake NW Quad	1.277	1.855	0.952	0.501	3
124	Ramona Lake NE Quad	1.464	1.954	0.978	0.488	3
125	Ramona Lake SW Quad	1.851	1.851	1.851	na	1
126	Ramona Lake SE Quad	1.867	1.867	1.867	na	1
129	Hollow Tree drain	3.991	4.247	3.702	0.274	3
130	Marshall Rd Reservoir Entrance	0.872	1.245	0.504	0.257	7
131	Marshall Rd Reservoir Exit	0.991	1.254	0.775	0.167	7
132	Marshall Rd Res Pond 1W	0.881	1.072	0.656	0.175	5
133	Marshall Rd Res Pond 2E	0.878	1.073	0.609	0.191	5
135	Modesto ID Main Drain Spill	0.250	0.337	0.163	0.073	7

Total Dissolved Solids

DO site number	Site name	Average of TDS g/L	Max of TDS g/L	Min of TDS g/L	StdDev of TDS g/L	Count of TDS g/L
1	SJR at Channel Point	na	na	na	na	na
2	SJR at Dos Reis Lathrop	na	na	na	na	na
3	SJR at Old River	na	na	na	na	na
4	SJR at Mossdale	0.310	0.527	0.027	0.150	64
5	SJR at Vernalis	0.309	0.521	0.061	0.139	76
6	SJR at Maze	0.426	0.700	0.068	0.197	69
7	SJR at Patterson	0.554	1.014	0.076	0.254	79
8	SJR at Crows Landing	0.572	1.078	0.001	0.258	84
9	SJR at Fremont Ford	0.854	1.049	0.641	0.147	5
10	SJR at Lander Avenue	0.586	1.087	0.032	0.315	83
11	French Camp Slough	0.309	0.478	0.064	0.165	7
12	Stanislaus River at Caswell Park	0.062	0.270	0.038	0.030	67
13	Stanislaus River at Ripon	0.068	0.068	0.068	na	1
14	Tuolumne River at Shiloh Bridge	0.097	0.321	0.027	0.058	68
16	Merced River at River Road	0.099	0.370	0.023	0.074	67
17	Merced River near Stevenson	0.025	0.025	0.025	na	1
18	Mud Slough near Gustine	1.717	3.059	0.727	0.613	77
19	Salt Slough at Lander Avenue	0.798	1.546	0.324	0.223	105
20	Los Banos Creek at Highway 140	0.891	2.050	0.325	0.376	68
21	Orestimba Creek at River Road	0.434	0.775	0.058	0.172	63
22	Modesto ID Lateral 4 to SJR	0.111	0.190	0.030	0.074	6
23	Modesto ID Lateral 5 to Tuolumne	0.081	0.348	0.019	0.074	29
24	Modesto ID Lateral 6 to Stanislaus River	0.042	0.044	0.039	0.003	2
25	MD Main Drain to Stan. R. via Miller Lake	0.218	0.629	0.042	0.097	40
26	Turlock ID Highline Spill	0.026	0.027	0.024	0.002	2
27	Turlock ID Lateral 2 to SJR	0.085	0.158	0.035	0.050	5
28	Turlock ID Westport Drain Flow Station	0.434	0.773	0.091	0.169	50
29	Turlock ID Harding Drain	0.451	0.798	0.194	0.145	65
30	Turlock ID Lateral 6 & 7 at Levee	0.417	0.982	0.238	0.145	36
31	BCID - New Jerusalem Drain	1.575	1.658	1.402	0.084	8
32	EI Solyo WD - Grayson Drain	0.552	0.887	0.276	0.248	6
33	Hospital Creek	0.321	0.807	0.095	0.184	17
34	Ingram Creek Flow Station	0.639	1.320	0.160	0.269	44
35	Westley Wasteway Flow Station	0.417	0.529	0.355	0.056	8
36	Del Puerto Creek Flow Station	0.570	0.937	0.220	0.196	58
38	Marshall Road Drain	0.551	0.890	0.292	0.221	7
39	Salado Creek Flow Station	0.810	0.948	0.699	0.106	4
43	EI Solyo Pumping Station	0.346	0.346	0.346	na	1
44	San Luis Drain End	2.861	3.709	2.008	0.375	76
45	Volta Wasteway at Ingomar Grade	0.545	0.929	0.211	0.273	11
46	Mud Slough at Gun Club Road	1.190	2.269	0.533	0.605	11
47	Delta-Mendota Cal Hwy 140	0.318	0.361	0.269	0.046	3
48	FC-5 Grasslands Area Farmers	3.358	3.358	3.358	na	1
49	PE-14-Grasslands Area Farmers	3.840	3.840	3.840	na	1
50	San Luis Drain Site A (Check 18)	3.086	3.534	2.618	0.458	3
51	Arroyo Cal at Hwy 152	0.749	0.794	0.705	0.063	2
52	Salt Slough at Sand Dam	0.567	0.656	0.472	0.092	3
53	Salt Slough at Wolfsen Road	0.852	1.321	0.527	0.211	29
54	Los Banos Creek at Ingomar Grade	0.442	0.442	0.442	na	1
57	Ramona Lake Drain at Levee	0.869	1.201	0.622	0.157	29
59	SJR Laird Park	0.385	0.623	0.097	0.178	17
60	Moffit 1 South	0.651	1.066	0.345	0.229	20
61	Deadman's Slough	0.748	1.312	0.368	0.301	26
62	Mallard Slough	1.059	3.890	0.386	0.765	22
63	Inlet C Canal	0.474	1.008	0.232	0.198	26

DO site number	Site name	Average of TDS g/L	Max of TDS g/L	Min of TDS g/L	StdDev of TDS g/L	Count of TDS g/L
64	Moran Drain	0.481	0.617	0.282	0.141	6
65	Spanish Grant Drain	0.562	0.866	0.328	0.203	7
66	ESWD Maze Blv. Drain	0.317	0.353	0.271	0.034	4
67	Newman Wasteway at Brazo Road	0.751	1.131	0.391	0.249	7
68	S. Lake Basin	1.314	2.106	0.303	0.829	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	0.467	0.905	0.241	0.179	18
81	South Marsh 1 Outlet	0.466	0.875	0.246	0.150	21
82	South Marsh 3 Inlet	0.709	1.124	0.278	0.195	25
83	South Marsh 3 Outlet	0.733	1.196	0.413	0.179	28
84	SJR Garwood Bridge	na	na	na	na	na
86	Ramona Drain Apple Ave	0.794	1.036	0.431	0.174	9
87	Ramona Drain Prune Ave	0.513	0.666	0.427	0.132	3
88	Ramona Drain Apricot Ave	0.808	1.126	0.285	0.263	9
89	Ramona Drain Pomelo Ave	0.623	0.843	0.402	0.220	3
90	Ramona Drain Almond Ave	0.771	0.771	0.771	na	1
91	Paradise Drain Prune Ave	0.231	0.231	0.231	na	1
92	Paradise Drain Apricot Ave	0.939	1.985	0.530	0.485	7
93	Paradise Drain Pomelo Ave	1.095	1.955	0.526	0.758	3
94	Paradise Drain Almond Ave	0.953	1.923	0.503	0.457	7
95	Ramona Lake Entrance	0.987	1.542	0.581	0.251	16
96	WPF-VD-1	0.254	0.254	0.254	na	1
97	WPF-VD-2	0.277	0.277	0.277	na	1
98	WPF-VD-3	0.269	0.269	0.269	na	1
101	WPF-UD-IN	0.471	0.688	0.254	0.307	2
102	WPF-UD-OUT	0.446	0.637	0.255	0.270	2
103	SLD Check 18	2.837	3.116	2.557	0.395	2
104	SLD Check 16	2.942	3.177	2.707	0.332	2
105	SLD Check 15	2.986	3.200	2.772	0.303	2
106	SLD Check 14	2.970	3.229	2.711	0.366	2
107	SLD Check 13	2.952	3.230	2.674	0.393	2
108	SLD Check 12	2.968	3.215	2.722	0.349	2
109	SLD Check 11	2.959	3.285	2.634	0.460	2
110	SLD Check 10	2.971	3.192	2.750	0.312	2
111	SLD Check 9	2.921	3.013	2.829	0.130	2
112	SLD Check 8	2.855	2.949	2.760	0.134	2
113	SLD Check 7	2.845	2.886	2.805	0.057	2
114	SLD Check 6	2.810	2.936	2.684	0.178	2
115	SLD Check 5	2.887	2.907	2.867	0.028	2
116	SLD Check 4	2.903	3.073	2.734	0.239	2
117	SLD Check 3	3.016	3.095	2.938	0.111	2
118	SLD Check 2	2.924	2.925	2.924	0.001	2
119	SLD Check 1	2.963	2.978	2.947	0.022	2
120	South Marsh 1 Intermediary	0.421	0.622	0.246	0.149	11
121	South Marsh 1 East	0.427	0.623	0.252	0.156	10
122	South Marsh 1 West	0.509	0.772	0.294	0.140	9
123	Ramona Lake NW Quad	0.642	0.666	0.619	0.033	2
124	Ramona Lake NE Quad	0.793	0.950	0.636	0.222	2
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	2.594	2.761	2.406	0.178	3
130	Marshall Rd Reservoir Entrance	0.567	0.809	0.327	0.167	7
131	Marshall Rd Reservoir Exit	0.644	0.815	0.503	0.109	7
132	Marshall Rd Res Pond 1W	0.573	0.697	0.426	0.114	5
133	Marshall Rd Res Pond 2E	0.571	0.698	0.396	0.124	5
135	Modesto ID Main Drain Spill	0.163	0.219	0.106	0.048	7

Dissolved Oxygen

DO site number	Site name	Average of DO mg/L	Max of DO mg/L	Min of DO mg/L	StdDev of DO mg/L	Count of DO mg/L
1	SJR at Channel Point	7.98	9.06	6.90	1.53	2
2	SJR at Dos Reis Lathrop	12.20	13.00	11.39	1.13	2
3	SJR at Old River	11.58	11.99	11.18	0.57	2
4	SJR at Mossdale	9.91	13.81	7.57	1.35	65
5	SJR at Vernalis	10.00	17.18	7.57	1.67	76
6	SJR at Maze	9.84	16.81	6.81	1.58	69
7	SJR at Patterson	10.09	15.59	6.28	1.92	79
8	SJR at Crows Landing	9.47	12.97	6.62	1.40	84
9	SJR at Fremont Ford	7.99	9.62	6.30	1.20	5
10	SJR at Lander Avenue	11.16	18.66	6.17	3.05	83
11	French Camp Slough	10.71	12.60	8.38	1.62	7
12	Stanislaus River at Caswell Park	9.60	11.72	7.60	1.08	67
13	Stanislaus River at Ripon	8.13	8.13	8.13	na	1
14	Tuolumne River at Shiloh Bridge	9.66	12.66	6.50	1.43	68
16	Merced River at River Road	9.51	12.49	7.54	1.18	67
17	Merced River near Stevenson	9.59	9.59	9.59	na	1
18	Mud Slough near Gustine	8.70	14.00	4.47	1.66	77
19	Salt Slough at Lander Avenue	7.87	12.28	4.03	1.49	105
20	Los Banos Creek at Highway 140	6.08	14.26	0.20	2.40	68
21	Orestimba Creek at River Road	9.21	13.90	7.01	1.64	63
22	Modesto ID Lateral 4 to SJR	10.36	11.23	9.30	0.85	6
23	Modesto ID Lateral 5 to Tuolumne	10.89	16.71	8.46	1.95	29
24	Modesto ID Lateral 6 to Stanislaus River	8.30	9.97	6.63	2.36	2
25	MID Main Drain to Stan. R. via Miller Lake	7.33	17.07	1.49	3.04	40
26	Turlock ID Highline Spill	9.35	9.80	8.90	0.64	2
27	Turlock ID Lateral 2 to SJR	11.05	11.98	10.26	0.67	5
28	Turlock ID Westport Drain Flow Station	10.73	15.12	7.35	1.64	50
29	Turlock ID Harding Drain	10.79	14.00	5.48	1.52	65
30	Turlock ID Lateral 6 & 7 at Levee	11.01	16.14	2.37	2.53	36
31	BCID - New Jerusalem Drain	9.07	9.65	8.55	0.35	8
32	El Solyo WD - Grayson Drain	7.94	9.07	6.27	1.00	6
33	Hospital Creek	8.12	10.17	5.53	1.30	17
34	Ingram Creek Flow Station	9.13	12.95	5.21	1.44	44
35	Westley Wasteway Flow Station	10.23	12.77	6.67	1.88	8
36	Del Puerto Creek Flow Station	9.59	15.16	7.18	1.85	58
38	Marshall Road Drain	8.27	9.82	7.11	0.94	7
39	Salado Creek Flow Station	6.24	7.64	5.16	1.16	4
43	El Solyo Pumping Station	8.49	8.49	8.49	na	1
44	San Luis Drain End	12.09	17.09	2.59	2.64	76
45	Volta Wasteway at Ingomar Grade	9.84	14.15	4.05	2.99	11
46	Mud Slough at Gun Club Road	7.18	12.43	1.18	2.75	11
47	Delta-Mendota Cal Hwy 140	8.03	8.40	7.71	0.35	3
48	FC-5 Grasslands Area Farmers	17.68	17.68	17.68	na	1
49	PE-14-Grasslands Area Farmers	18.32	18.32	18.32	na	1
50	San Luis Drain Site A (Check 18)	11.73	13.75	7.90	3.31	3
51	Arroyo Cal at Hwy 152	7.61	8.07	7.14	0.66	2
52	Salt Slough at Sand Dam	7.04	8.86	5.71	1.63	3
53	Salt Slough at Wolfsen Road	7.95	12.11	1.61	1.83	29
54	Los Banos Creek at Ingomar Grade	6.20	6.20	6.20	na	1
57	Ramona Lake Drain at Levee	10.34	20.59	2.57	4.27	30
59	SJR Laird Park	9.51	12.38	6.98	1.58	17
60	Moffit 1 South	6.18	12.17	0.53	2.76	20
61	Deadman's Slough	6.68	11.80	2.66	2.07	26
62	Mallard Slough	4.16	9.49	0.61	2.49	22
63	Inlet C Canal	9.86	15.60	7.22	1.57	26

DO site number	Site name	Average of DO mg/L	Max of DO mg/L	Min of DO mg/L	StdDev of DO mg/L	Count of DO mg/L
64	Moran Drain	8.90	10.63	6.90	1.22	6
65	Spanish Grant Drain	8.09	9.51	6.30	1.27	7
66	ESWD Maze Blv. Drain	9.75	12.08	7.17	2.36	4
67	Newman Wasteway at Brazo Road	6.72	7.63	4.80	0.97	7
68	S. Lake Basin	6.96	9.56	4.52	2.07	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	9.23	18.47	4.21	3.78	17
81	South Marsh 1 Outlet	6.41	13.66	0.15	4.00	21
82	South Marsh 3 Inlet	6.47	14.76	0.29	3.43	25
83	South Marsh 3 Outlet	8.30	15.72	2.06	3.27	28
84	SJR Garwood Bridge	9.54	9.54	9.54	na	1
86	Ramona Drain Apple Ave	4.54	8.59	0.41	2.54	9
87	Ramona Drain Prune Ave	2.62	3.14	2.11	0.52	3
88	Ramona Drain Apricot Ave	4.69	8.00	0.55	2.43	9
89	Ramona Drain Pomelo Ave	2.92	3.86	1.57	1.20	3
90	Ramona Drain Almond Ave	3.69	3.69	3.69	na	1
91	Paradise Drain Prune Ave	5.32	5.32	5.32	na	1
92	Paradise Drain Apricot Ave	10.35	14.84	7.60	2.49	7
93	Paradise Drain Pomelo Ave	6.99	9.76	5.57	2.40	3
94	Paradise Drain Almond Ave	5.98	7.71	3.75	1.40	7
95	Ramona Lake Entrance	9.38	17.25	3.06	3.63	17
96	WPF-VD-1	5.43	5.43	5.43	na	1
97	WPF-VD-2	4.77	4.77	4.77	na	1
98	WPF-VD-3	0.63	0.63	0.63	na	1
101	WPF-UD-IN	7.17	8.74	5.60	2.22	2
102	WPF-UD-OUT	7.00	7.63	6.37	0.89	2
103	SLD Check 18	10.67	13.43	7.90	3.91	2
104	SLD Check 16	11.43	14.25	8.62	3.97	2
105	SLD Check 15	11.38	13.77	9.00	3.37	2
106	SLD Check 14	11.61	13.53	9.68	2.72	2
107	SLD Check 13	11.28	11.59	10.97	0.44	2
108	SLD Check 12	10.84	11.25	10.43	0.58	2
109	SLD Check 11	9.51	10.56	8.47	1.47	2
110	SLD Check 10	14.70	15.54	13.86	1.19	2
111	SLD Check 9	13.73	15.01	12.44	1.82	2
112	SLD Check 8	13.03	14.12	11.93	1.55	2
113	SLD Check 7	13.72	13.92	13.51	0.28	2
114	SLD Check 6	13.78	15.75	11.81	2.78	2
115	SLD Check 5	13.03	15.68	10.37	3.76	2
116	SLD Check 4	13.56	15.81	11.32	3.18	2
117	SLD Check 3	15.15	19.60	10.70	6.29	2
118	SLD Check 2	14.80	19.04	10.56	6.00	2
119	SLD Check 1	12.75	17.39	8.11	6.56	2
120	South Marsh 1 Intermediary	8.66	19.78	4.09	4.14	11
121	South Marsh 1 East	7.14	16.66	0.94	5.21	10
122	South Marsh 1 West	4.60	7.18	0.51	2.58	9
123	Ramona Lake NW Quad	17.73	18.18	17.15	0.53	3
124	Ramona Lake NE Quad	15.41	21.57	12.04	5.34	3
125	Ramona Lake SW Quad	17.96	17.96	17.96	na	1
126	Ramona Lake SE Quad	18.02	18.02	18.02	na	1
129	Hollow Tree drain	7.21	8.94	6.01	1.53	3
130	Marshall Rd Reservoir Entrance	8.87	9.55	7.74	0.68	7
131	Marshall Rd Reservoir Exit	8.93	11.77	6.67	1.75	7
132	Marshall Rd Res Pond 1W	8.40	9.63	7.32	1.06	5
133	Marshall Rd Res Pond 2E	8.38	9.26	7.48	0.65	5
135	Modesto ID Main Drain Spill	7.38	9.58	5.18	1.88	7

pH

DO site number	Site name	Average of pH	Max of pH	Min of pH	StdDev of pH	Count of pH
1	SJR at Channel Point	7.87	8.14	7.59	0.39	2
2	SJR at Dos Reis Lathrop	8.87	9.05	8.69	0.26	2
3	SJR at Old River	8.79	8.94	8.64	0.21	2
4	SJR at Mossdale	7.96	9.14	6.84	0.60	65
5	SJR at Vernalis	7.91	9.11	7.06	0.47	76
6	SJR at Maze	7.92	8.92	7.14	0.40	69
7	SJR at Patterson	7.91	8.70	7.14	0.36	79
8	SJR at Crows Landing	7.87	8.53	7.32	0.26	84
9	SJR at Fremont Ford	7.97	8.13	7.89	0.10	5
10	SJR at Lander Avenue	8.26	9.17	7.20	0.46	83
11	French Camp Slough	7.78	8.06	7.23	0.28	7
12	Stanislaus River at Caswell Park	7.56	8.34	6.76	0.29	67
13	Stanislaus River at Ripon	7.64	7.64	7.64	na	1
14	Tuolumne River at Shiloh Bridge	7.76	8.73	6.96	0.35	68
16	Merced River at River Road	7.50	8.39	7.02	0.23	67
17	Merced River near Stevenson	7.37	7.37	7.37	na	1
18	Mud Slough near Gustine	8.13	8.83	7.42	0.36	77
19	Salt Slough at Lander Avenue	7.69	8.04	7.11	0.15	105
20	Los Banos Creek at Highway 140	7.64	8.50	7.08	0.30	68
21	Orestimba Creek at River Road	7.99	9.20	7.60	0.28	63
22	Modesto ID Lateral 4 to SJR	8.52	8.96	7.73	0.44	6
23	Modesto ID Lateral 5 to Tuolumne	8.32	9.76	7.44	0.63	29
24	Modesto ID Lateral 6 to Stanislaus River	7.75	8.15	7.35	0.57	2
25	MID Main Drain to Stan. R. via Miller Lake	7.69	8.81	7.22	0.38	40
26	Turlock ID Highline Spill	8.35	8.38	8.32	0.04	2
27	Turlock ID Lateral 2 to SJR	8.29	8.95	7.44	0.54	5
28	Turlock ID Westport Drain Flow Station	7.98	8.58	7.30	0.24	50
29	Turlock ID Harding Drain	7.78	8.28	7.00	0.21	65
30	Turlock ID Lateral 6 & 7 at Levee	7.80	8.58	7.43	0.27	36
31	BCID - New Jerusalem Drain	7.39	7.65	7.25	0.13	8
32	Ei Solyo WD - Grayson Drain	8.08	8.46	7.48	0.36	6
33	Hospital Creek	7.97	8.56	7.35	0.35	17
34	Ingram Creek Flow Station	8.03	8.63	7.32	0.24	44
35	Westley Wasteway Flow Station	8.50	9.13	7.91	0.42	8
36	Del Puerto Creek Flow Station	8.20	9.36	7.60	0.33	58
38	Marshall Road Drain	7.72	7.91	7.58	0.11	7
39	Salado Creek Flow Station	7.65	7.80	7.50	0.14	4
43	Ei Solyo Pumping Station	7.76	7.76	7.76	na	1
44	San Luis Drain End	8.49	9.09	7.75	0.29	76
45	Volta Wasteway at Ingomar Grade	7.69	7.91	7.30	0.17	11
46	Mud Slough at Gun Club Road	7.90	8.53	7.47	0.33	11
47	Delta-Mendota Cal Hwy 140	7.64	7.84	7.28	0.31	3
48	FC-5 Grasslands Area Farmers	8.46	8.46	8.46	na	1
49	PE-14-Grasslands Area Farmers	8.44	8.44	8.44	na	1
50	San Luis Drain Site A (Check 18)	8.16	8.29	7.98	0.16	3
51	Arroyo Cal at Hwy 152	7.84	8.00	7.67	0.23	2
52	Salt Slough at Sand Dam	7.48	7.61	7.40	0.11	3
53	Salt Slough at Wolfsen Road	7.48	7.74	7.05	0.14	29
54	Los Banos Creek at Ingomar Grade	7.75	7.75	7.75	na	1
57	Ramona Lake Drain at Levee	8.05	9.49	7.29	0.45	30
59	SJR Laird Park	7.83	8.27	7.60	0.20	17
60	Moffit 1 South	7.33	7.60	6.95	0.21	20
61	Deadman's Slough	7.43	8.25	6.96	0.31	26
62	Mallard Slough	7.26	7.97	6.84	0.25	22
63	Inlet C Canal	7.79	8.31	7.38	0.18	26

DO site number	Site name	Average of pH	Max of pH	Min of pH	StdDev of pH	Count of pH
64	Moran Drain	8.00	8.19	7.71	0.18	6
65	Spanish Grant Drain	7.78	8.15	7.46	0.27	7
66	ESWD Maze Blv. Drain	8.45	8.82	8.07	0.35	4
67	Newman Wasteway at Brazo Road	7.44	7.61	7.32	0.11	7
68	S. Lake Basin	7.83	8.18	7.52	0.24	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	7.70	8.55	7.32	0.33	18
81	South Marsh 1 Outlet	7.44	8.51	6.86	0.42	21
82	South Marsh 3 Inlet	7.38	8.09	6.82	0.28	25
83	South Marsh 3 Outlet	7.47	9.06	6.83	0.37	28
84	SJR Garwood Bridge	8.13	8.13	8.13	na	1
86	Ramona Drain Apple Ave	7.48	8.00	7.06	0.28	9
87	Ramona Drain Prune Ave	7.21	7.34	7.14	0.12	3
88	Ramona Drain Apricot Ave	7.52	8.00	6.79	0.34	9
89	Ramona Drain Pomelo Ave	7.32	7.44	7.18	0.13	3
90	Ramona Drain Almond Ave	7.41	7.41	7.41	na	1
91	Paradise Drain Prune Ave	7.32	7.32	7.32	na	1
92	Paradise Drain Apricot Ave	7.90	8.70	7.34	0.47	7
93	Paradise Drain Pomelo Ave	7.49	7.64	7.26	0.20	3
94	Paradise Drain Almond Ave	7.66	7.95	7.51	0.15	7
95	Ramona Lake Entrance	7.89	8.57	7.18	0.37	17
96	WPF-VD-1	7.25	7.25	7.25	na	1
97	WPF-VD-2	7.24	7.24	7.24	na	1
98	WPF-VD-3	6.98	6.98	6.98	na	1
101	WPF-UD-IN	7.42	7.58	7.25	0.23	2
102	WPF-UD-OUT	7.46	7.51	7.40	0.08	2
103	SLD Check 18	8.07	8.19	7.94	0.18	2
104	SLD Check 16	8.19	8.27	8.11	0.11	2
105	SLD Check 15	8.26	8.30	8.21	0.06	2
106	SLD Check 14	8.35	8.36	8.34	0.01	2
107	SLD Check 13	8.30	8.34	8.26	0.05	2
108	SLD Check 12	8.27	8.31	8.22	0.06	2
109	SLD Check 11	8.36	8.51	8.20	0.22	2
110	SLD Check 10	8.45	8.47	8.43	0.03	2
111	SLD Check 9	8.47	8.50	8.44	0.04	2
112	SLD Check 8	8.34	8.38	8.30	0.06	2
113	SLD Check 7	8.36	8.38	8.35	0.02	2
114	SLD Check 6	8.45	8.53	8.36	0.12	2
115	SLD Check 5	8.60	8.68	8.53	0.11	2
116	SLD Check 4	8.64	8.69	8.59	0.07	2
117	SLD Check 3	8.60	8.73	8.47	0.19	2
118	SLD Check 2	8.66	8.80	8.53	0.19	2
119	SLD Check 1	8.69	8.85	8.52	0.24	2
120	South Marsh 1 Intermediary	7.67	8.72	7.21	0.39	11
121	South Marsh 1 East	7.34	8.22	6.98	0.40	10
122	South Marsh 1 West	7.21	7.52	6.90	0.20	9
123	Ramona Lake NW Quad	8.94	9.04	8.81	0.11	3
124	Ramona Lake NE Quad	8.46	9.47	7.87	0.88	3
125	Ramona Lake SW Quad	8.83	8.83	8.83	na	1
126	Ramona Lake SE Quad	8.81	8.81	8.81	na	1
129	Hollow Tree drain	7.86	7.90	7.78	0.07	3
130	Marshall Rd Reservoir Entrance	7.93	8.18	7.73	0.19	7
131	Marshall Rd Reservoir Exit	8.55	8.98	8.12	0.36	7
132	Marshall Rd Res Pond 1W	8.07	8.45	7.74	0.34	5
133	Marshall Rd Res Pond 2E	7.96	8.22	7.75	0.20	5
135	Modesto ID Main Drain Spill	7.58	8.02	7.30	0.33	7

Oxidation Reduction Potential

DO site number	Site name	Average of ORP mV	Max of ORP mV	Min of ORP mV	StdDev of ORP mV	Count of ORP mV
1	SJR at Channel Point	0.00	0.00	0.00	na	1
2	SJR at Dos Reis Lathrop	0.00	0.00	0.00	na	1
3	SJR at Old River	0.00	0.00	0.00	na	1
4	SJR at Mossdale	181.06	419.63	0.00	96.11	65
5	SJR at Vernalis	190.10	412.89	40.17	86.54	76
6	SJR at Maze	188.87	402.14	35.47	81.08	69
7	SJR at Patterson	190.04	418.06	4.48	86.57	79
8	SJR at Crows Landing	176.94	397.54	16.54	84.53	84
9	SJR at Fremont Ford	154.11	191.83	119.95	32.68	5
10	SJR at Lander Avenue	164.27	392.41	17.03	87.42	83
11	French Camp Slough	186.71	278.85	141.62	46.72	7
12	Stanislaus River at Caswell Park	201.65	454.24	26.45	89.84	67
13	Stanislaus River at Ripon	286.36	286.36	286.36	na	1
14	Tuolumne River at Shiloh Bridge	201.77	446.41	76.14	83.22	68
16	Merced River at River Road	192.09	422.21	21.91	91.87	67
17	Merced River near Stevenson	367.64	367.64	367.64	na	1
18	Mud Slough near Gustine	160.33	376.45	47.89	80.35	77
19	Salt Slough at Lander Avenue	175.56	417.31	18.12	89.56	105
20	Los Banos Creek at Highway 140	161.89	440.48	-49.77	108.11	68
21	Orestimba Creek at River Road	195.94	425.67	15.65	93.36	63
22	Modesto ID Lateral 4 to SJR	300.10	373.28	127.95	107.11	6
23	Modesto ID Lateral 5 to Tuolumne	238.69	404.87	30.74	98.34	29
24	Modesto ID Lateral 6 to Stanislaus River	241.21	288.72	193.69	67.20	2
25	MID Main Drain to Stan. R. via Miller Lake	194.46	413.24	13.80	91.47	40
26	Turlock ID Highline Spill	244.52	323.36	165.67	111.51	2
27	Turlock ID Lateral 2 to SJR	181.25	290.64	115.72	66.82	5
28	Turlock ID Westport Drain Flow Station	208.53	415.78	23.86	94.88	50
29	Turlock ID Harding Drain	188.67	407.30	0.74	86.77	65
30	Turlock ID Lateral 6 & 7 at Levee	179.82	398.23	120.29	52.62	36
31	BCID - New Jerusalem Drain	230.16	426.80	136.31	104.93	8
32	El Solyo WD - Grayson Drain	160.69	325.30	90.81	89.10	6
33	Hospital Creek	192.89	406.42	104.58	87.10	17
34	Ingram Creek Flow Station	166.59	413.56	33.16	68.84	44
35	Westley Wasteway Flow Station	227.42	390.16	90.25	109.11	8
36	Del Puerto Creek Flow Station	204.49	420.76	44.52	102.19	58
38	Marshall Road Drain	233.76	382.83	139.31	99.82	7
39	Salado Creek Flow Station	139.54	176.66	102.89	35.01	4
43	El Solyo Pumping Station	315.83	315.83	315.83	na	1
44	San Luis Drain End	163.79	385.42	30.90	91.42	76
45	Volta Wasteway at Ingomar Grade	147.50	269.07	79.55	53.79	11
46	Mud Slough at Gun Club Road	144.78	260.64	86.62	56.33	11
47	Delta-Mendota Cal Hwy 140	127.56	169.22	102.72	36.30	3
48	FC-5 Grasslands Area Farmers	373.64	373.64	373.64	na	1
49	PE-14-Grasslands Area Farmers	361.06	361.06	361.06	na	1
50	San Luis Drain Site A (Check 18)	249.56	379.65	169.99	113.60	3
51	Arroyo Cal at Hwy 152	171.44	188.00	154.88	23.42	2
52	Salt Slough at Sand Dam	223.88	332.80	164.91	94.44	3
53	Salt Slough at Wolfsen Road	159.94	427.81	19.32	99.87	29
54	Los Banos Creek at Ingomar Grade	119.33	119.33	119.33	na	1
57	Ramona Lake Drain at Levee	139.50	229.19	-87.82	59.63	29
59	SJR Laird Park	253.14	400.73	26.05	120.64	17
60	Moffit 1 South	155.55	360.70	5.71	82.91	20
61	Deadman's Slough	163.05	394.99	14.42	82.13	26
62	Mallard Slough	138.44	422.52	-88.11	112.11	22
63	Inlet C Canal	151.30	421.49	17.00	94.78	26

DO site number	Site name	Average of ORP mV	Max of ORP mV	Min of ORP mV	StdDev of ORP mV	Count of ORP mV
64	Moran Drain	203.24	376.52	141.62	86.21	6
65	Spanish Grant Drain	238.34	414.24	146.99	107.08	7
66	ESWD Maze Blv. Drain	265.81	393.49	148.45	119.72	4
67	Newman Wasteway at Brazo Road	212.54	370.11	90.97	105.50	7
68	S. Lake Basin	214.90	362.20	118.66	121.30	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	167.33	455.49	67.57	108.01	18
81	South Marsh 1 Outlet	118.38	398.13	-279.40	146.44	21
82	South Marsh 3 Inlet	112.01	452.55	-137.53	137.37	25
83	South Marsh 3 Outlet	148.88	448.98	15.04	99.46	28
84	SJR Garwood Bridge	0.00	0.00	0.00	na	1
86	Ramona Drain Apple Ave	125.85	211.74	59.11	40.49	9
87	Ramona Drain Prune Ave	127.71	191.52	87.05	55.95	3
88	Ramona Drain Apricot Ave	93.57	125.46	53.45	28.82	9
89	Ramona Drain Pomelo Ave	101.22	146.35	71.85	39.67	3
90	Ramona Drain Almond Ave	220.96	220.96	220.96	na	1
91	Paradise Drain Prune Ave	122.74	122.74	122.74	na	1
92	Paradise Drain Apricot Ave	116.10	227.00	82.43	50.15	7
93	Paradise Drain Pomelo Ave	128.71	196.92	56.60	70.24	3
94	Paradise Drain Almond Ave	118.73	213.75	81.15	45.87	7
95	Ramona Lake Entrance	141.06	228.47	69.79	39.93	16
96	WPF-VD-1	146.12	146.12	146.12	na	1
97	WPF-VD-2	145.71	145.71	145.71	na	1
98	WPF-VD-3	78.29	78.29	78.29	na	1
101	WPF-UD-IN	193.52	239.11	147.93	64.47	2
102	WPF-UD-OUT	171.12	219.45	122.78	68.36	2
103	SLD Check 18	177.36	187.18	167.55	13.88	2
104	SLD Check 16	180.84	197.68	164.00	23.82	2
105	SLD Check 15	190.45	201.76	179.14	15.99	2
106	SLD Check 14	193.30	209.18	177.42	22.46	2
107	SLD Check 13	203.02	221.00	185.03	25.43	2
108	SLD Check 12	198.42	211.95	184.90	19.13	2
109	SLD Check 11	193.07	208.15	178.00	21.32	2
110	SLD Check 10	189.52	197.33	181.71	11.05	2
111	SLD Check 9	193.10	206.19	180.00	18.52	2
112	SLD Check 8	198.70	214.93	182.47	22.95	2
113	SLD Check 7	199.65	220.31	179.00	29.21	2
114	SLD Check 6	191.65	217.82	165.47	37.01	2
115	SLD Check 5	181.29	214.31	148.27	46.70	2
116	SLD Check 4	179.02	214.73	143.31	50.50	2
117	SLD Check 3	175.56	204.25	146.87	40.57	2
118	SLD Check 2	176.55	212.46	140.63	50.80	2
119	SLD Check 1	174.28	214.13	134.43	56.36	2
120	South Marsh 1 Intermediary	96.82	141.29	47.97	29.90	11
121	South Marsh 1 East	69.99	125.18	-129.00	75.30	10
122	South Marsh 1 West	46.13	129.83	-88.02	90.75	9
123	Ramona Lake NW Quad	151.27	242.40	60.14	128.88	2
124	Ramona Lake NE Quad	191.22	252.48	129.97	86.63	2
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	124.31	129.00	117.64	5.93	3
130	Marshall Rd Reservoir Entrance	139.84	180.97	101.30	34.14	7
131	Marshall Rd Reservoir Exit	135.56	182.17	95.64	30.47	7
132	Marshall Rd Res Pond 1W	141.33	183.52	108.82	31.58	5
133	Marshall Rd Res Pond 2E	146.39	187.67	113.71	29.92	5
135	Modesto ID Main Drain Spill	154.87	187.64	122.67	26.26	7

Turbidity (ntu)

DO site number	Site name	Average of Sonde Turbidity	Max of Sonde Turbidity	Min of Sonde Turbidity	StdDev of Sonde Turbidity	Count of Sonde Turbidity
1	SJR at Channel Point	23.89	32.20	15.58	11.75	2
2	SJR at Dos Reis Lathrop	20.26	29.84	10.68	13.55	2
3	SJR at Old River	19.04	28.39	9.70	13.21	2
4	SJR at Mossdale	20.65	63.99	4.94	9.55	65
5	SJR at Vernalis	20.38	74.05	3.71	9.64	76
6	SJR at Maze	25.14	78.75	7.57	11.72	69
7	SJR at Patterson	31.96	94.47	10.04	13.65	79
8	SJR at Crows Landing	28.49	90.82	10.92	12.47	84
9	SJR at Fremont Ford	47.41	77.04	12.94	23.81	5
10	SJR at Lander Avenue	27.15	191.31	11.48	24.37	83
11	French Camp Slough	28.88	115.16	4.58	39.14	7
12	Stanislaus River at Caswell Park	6.25	32.04	0.00	5.83	67
13	Stanislaus River at Ripon	2.73	2.73	2.73	na	1
14	Tuolumne River at Shiloh Bridge	5.41	46.31	0.00	7.34	68
16	Merced River at River Road	8.27	116.13	0.00	14.48	67
17	Merced River near Stevenson	7.17	7.17	7.17	na	1
18	Mud Slough near Gustine	34.84	95.57	9.69	18.48	77
19	Salt Slough at Lander Avenue	55.76	116.33	0.55	25.56	105
20	Los Banos Creek at Highway 140	62.51	206.98	11.11	50.65	68
21	Orestimba Creek at River Road	120.28	417.25	4.72	89.82	63
22	Modesto ID Lateral 4 to SJR	2.64	6.38	0.89	2.05	6
23	Modesto ID Lateral 5 to Tuolumne	6.97	46.81	0.00	10.83	29
24	Modesto ID Lateral 6 to Stanislaus River	8.81	11.91	5.72	4.38	2
25	MID Main Drain to Stan. R. via Miller Lake	21.42	77.71	1.57	13.92	40
26	Turlock ID Highline Spill	7.76	9.89	5.62	3.02	2
27	Turlock ID Lateral 2 to SJR	3.23	4.64	1.86	1.09	5
28	Turlock ID Westport Drain Flow Station	11.10	73.44	0.00	13.09	50
29	Turlock ID Harding Drain	15.35	77.38	1.67	15.22	64
30	Turlock ID Lateral 6 & 7 at Levee	7.02	43.72	0.70	10.16	36
31	BCID - New Jerusalem Drain	6.12	21.37	0.58	7.32	7
32	El Solvo WD - Grayson Drain	517.86	1582.13	90.69	535.71	6
33	Hospital Creek	526.71	2049.75	30.67	656.95	16
34	Ingram Creek Flow Station	334.51	2103.13	0.85	415.33	44
35	Westley Wasteway Flow Station	274.68	1282.90	12.62	422.65	8
36	Del Puerto Creek Flow Station	83.62	650.97	1.06	115.56	57
38	Marshall Road Drain	166.95	615.57	43.99	203.97	7
39	Salado Creek Flow Station	232.23	762.52	38.18	353.74	4
43	El Solvo Pumping Station	43.61	43.61	43.61	na	1
44	San Luis Drain End	22.01	47.21	7.40	8.73	75
45	Volta Wasteway at Ingomar Grade	10.03	17.31	4.57	3.77	11
46	Mud Slough at Gun Club Road	21.69	44.08	13.92	9.95	11
47	Delta-Mendota Cal Hwy 140	9.18	10.64	7.64	1.50	3
48	FC-5 Grasslands Area Farmers	19.02	19.02	19.02	na	1
49	PE-14-Grasslands Area Farmers	30.61	30.61	30.61	na	1
50	San Luis Drain Site A (Check 18)	46.74	70.55	25.88	22.48	3
51	Arroyo Cal at Hwy 152	92.92	118.27	67.56	35.86	2
52	Salt Slough at Sand Dam	68.26	95.67	49.22	24.33	3
53	Salt Slough at Wolfson Road	45.99	106.76	1.43	20.55	29
54	Los Banos Creek at Ingomar Grade	73.95	73.95	73.95	na	1
57	Ramona Lake Drain at Levee	84.21	250.31	31.83	50.77	30
59	SJR Laird Park	29.78	52.35	4.78	15.08	17
60	Moffit 1 South	1.76	7.48	0.00	2.20	20
61	Deadman's Slough	16.61	63.96	0.00	17.49	26
62	Mallard Slough	8.17	27.81	0.00	7.89	22
63	Inlet C Canal	49.00	92.65	11.37	22.36	26

DO site number	Site name	Average of Sonde Turbidity	Max of Sonde Turbidity	Min of Sonde Turbidity	StdDev of Sonde Turbidity	Count of Sonde Turbidity
64	Moran Drain	96.44	181.07	34.96	56.22	6
65	Spanish Grant Drain	206.53	427.71	20.49	162.79	7
66	ESWD Maze Blv. Drain	378.81	1422.28	20.51	695.79	4
67	Newman Wasteway at Brazo Road	86.74	137.64	43.84	33.46	7
68	S. Lake Basin	20.86	27.02	16.26	4.89	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	26.38	106.27	4.98	22.33	18
81	South Marsh 1 Outlet	7.19	81.82	0.00	17.85	21
82	South Marsh 3 Inlet	16.37	43.83	4.39	12.18	25
83	South Marsh 3 Outlet	18.05	55.22	4.11	12.94	28
84	SJR Garwood Bridge	14.10	14.10	14.10	na	1
86	Ramona Drain Apple Ave	59.95	159.04	11.76	46.77	9
87	Ramona Drain Prune Ave	22.20	35.79	14.91	11.78	3
88	Ramona Drain Apricot Ave	95.04	195.37	9.56	67.63	9
89	Ramona Drain Pomelo Ave	145.37	181.25	114.95	33.48	3
90	Ramona Drain Almond Ave	92.19	92.19	92.19	na	1
91	Paradise Drain Prune Ave	15.09	15.09	15.09	na	1
92	Paradise Drain Apricot Ave	17.68	26.99	7.16	7.12	7
93	Paradise Drain Pomelo Ave	128.89	192.12	11.46	101.80	3
94	Paradise Drain Almond Ave	95.75	168.99	57.48	36.40	7
95	Ramona Lake Entrance	83.76	223.09	23.82	47.45	17
96	WPF-VD-1	297.72	297.72	297.72	na	1
97	WPF-VD-2	197.32	197.32	197.32	na	1
98	WPF-VD-3	46.60	46.60	46.60	na	1
101	WPF-UD-IN	155.43	305.64	5.21	212.44	2
102	WPF-UD-OUT	168.34	307.80	28.87	197.23	2
103	SLD Check 18	59.14	87.59	30.69	40.23	2
104	SLD Check 16	39.35	54.54	24.17	21.47	2
105	SLD Check 15	40.33	58.30	22.36	25.42	2
106	SLD Check 14	42.25	57.55	26.95	21.63	2
107	SLD Check 13	56.94	72.45	41.44	21.93	2
108	SLD Check 12	56.56	72.19	40.92	22.11	2
109	SLD Check 11	52.18	55.47	48.88	4.66	2
110	SLD Check 10	36.05	41.30	30.80	7.42	2
111	SLD Check 9	37.58	46.42	28.75	12.50	2
112	SLD Check 8	54.51	75.79	33.23	30.10	2
113	SLD Check 7	40.70	44.23	37.17	4.99	2
114	SLD Check 6	43.93	51.79	36.07	11.11	2
115	SLD Check 5	29.21	31.11	27.32	2.68	2
116	SLD Check 4	34.32	34.65	33.99	0.47	2
117	SLD Check 3	27.91	31.88	23.94	5.61	2
118	SLD Check 2	17.56	19.43	15.70	2.63	2
119	SLD Check 1	17.87	22.38	13.37	6.37	2
120	South Marsh 1 Intermediary	16.92	36.11	5.43	10.01	11
121	South Marsh 1 East	6.99	27.93	0.99	8.84	10
122	South Marsh 1 West	9.85	39.11	1.29	11.70	9
123	Ramona Lake NW Quad	75.90	99.79	57.92	21.55	3
124	Ramona Lake NE Quad	58.38	72.84	36.73	19.10	3
125	Ramona Lake SW Quad	65.97	65.97	65.97	na	1
126	Ramona Lake SE Quad	62.14	62.14	62.14	na	1
129	Hollow Tree drain	38.12	54.57	21.67	16.45	3
130	Marshall Rd Reservoir Entrance	132.67	261.92	45.64	98.94	7
131	Marshall Rd Reservoir Exit	50.09	72.14	35.88	14.67	7
132	Marshall Rd Res Pond 1W	80.43	179.69	26.08	64.55	5
133	Marshall Rd Res Pond 2E	77.54	183.17	31.41	62.95	5
135	Modesto ID Main Drain Spill	20.64	24.02	16.82	3.03	7

Sonde Chlorophyll-a: Trichromatic C calibration

DO site number	Site name	Average of Sonde Chl-a corr for TriC ug/L	Max of Sonde Chl-a corr for TriC ug/L	Min of Sonde Chl-a corr for TriC ug/L	StdDev of Sonde Chl-a corr for TriC ug/L	Count of Sonde Chl-a corr for TriC ug/L
1	SJR at Channel Point	26.75	53.49	0.00	37.82	2
2	SJR at Dos Reis Lathrop	37.96	75.91	0.00	53.68	2
3	SJR at Old River	37.77	75.53	0.00	53.41	2
4	SJR at Mossdale	40.13	186.54	3.22	43.74	64
5	SJR at Vernalis	30.48	143.05	3.04	28.53	74
6	SJR at Maze	34.33	154.63	0.00	32.03	70
7	SJR at Patterson	40.62	151.13	3.91	32.82	79
8	SJR at Crows Landing	31.92	113.67	0.00	24.68	87
9	SJR at Fremont Ford	38.18	76.82	0.00	27.18	5
10	SJR at Lander Avenue	48.83	183.96	3.68	38.97	82
11	French Camp Slough	15.70	41.24	0.68	16.55	7
12	Stanislaus River at Caswell Park	2.54	14.63	0.00	3.42	67
13	Stanislaus River at Ripon	3.21	3.21	3.21	na	1
14	Tuolumne River at Shiloh Bridge	3.18	50.15	0.00	6.55	68
16	Merced River at River Road	2.48	28.47	0.00	4.84	67
17	Merced River near Stevenson	2.38	2.38	2.38	na	1
18	Mud Slough near Gustine	55.64	176.09	0.00	42.10	78
19	Salt Slough at Lander Avenue	16.31	39.04	0.00	9.12	105
20	Los Banos Creek at Highway 140	42.01	169.09	0.00	32.72	69
21	Orestimba Creek at River Road	16.38	229.57	0.00	31.13	60
22	Modesto ID Lateral 4 to SJR	6.09	8.61	0.00	3.19	6
23	Modesto ID Lateral 5 to Tuolumne	5.89	34.40	0.00	8.79	32
24	Modesto ID Lateral 6 to Stanislaus River	3.57	6.59	0.55	4.27	2
25	MID Main Drain to Stan. R. via Miller Lake	23.31	94.89	0.00	18.86	44
26	Turlock ID Highline Spill	1.49	2.98	0.00	2.11	2
27	Turlock ID Lateral 2 to SJR	0.69	2.96	0.00	1.28	5
28	Turlock ID Westport Drain Flow Station	4.82	52.28	0.00	8.13	53
29	Turlock ID Harding Drain	6.54	33.87	0.00	7.11	65
30	Turlock ID Lateral 6 & 7 at Levee	6.60	27.87	0.00	6.12	38
31	BCID - New Jerusalem Drain	4.14	18.07	0.00	7.91	9
32	El Solyo WD - Grayson Drain	56.05	114.65	0.01	39.51	6
33	Hospital Creek	24.77	70.21	0.00	21.74	20
34	Ingram Creek Flow Station	40.46	126.90	1.89	32.45	44
35	Westley Wasteway Flow Station	25.10	66.33	4.03	19.52	8
36	Del Puerto Creek Flow Station	16.91	91.75	0.00	17.16	63
38	Marshall Road Drain	36.54	81.46	8.03	27.23	8
39	Salado Creek Flow Station	47.81	84.08	16.35	31.26	4
43	El Solyo Pumping Station	24.34	24.34	24.34	na	1
44	San Luis Drain End	133.19	386.26	0.00	82.79	78
45	Volta Wasteway at Ingomar Grade	4.70	14.19	0.87	3.71	11
46	Mud Slough at Gun Club Road	27.00	89.01	8.51	27.83	11
47	Delta-Mendota Cal Hwy 140	2.02	3.64	0.00	1.85	3
48	FC-5 Grasslands Area Farmers	76.99	110.24	43.74	47.03	2
49	PE-14-Grasslands Area Farmers	52.97	54.01	51.93	1.47	2
50	San Luis Drain Site A (Check 18)	37.20	59.93	17.33	17.88	4
51	Arroyo Cal at Hwy 152	11.97	21.73	2.20	13.81	2
52	Salt Slough at Sand Dam	16.51	18.86	15.07	2.06	3
53	Salt Slough at Wolfsen Road	15.00	26.80	7.27	5.02	29
54	Los Banos Creek at Ingomar Grade	0.00	0.00	0.00	na	1
57	Ramona Lake Drain at Levee	90.17	406.47	0.00	96.55	31
59	SJR Laird Park	21.34	166.64	0.00	33.15	27
60	Moffit 1 South	10.35	34.27	0.00	7.28	23
61	Deadman's Slough	23.68	167.47	0.00	34.55	27
62	Mallard Slough	17.40	73.36	0.00	15.85	24
63	Inlet C Canal	9.00	16.79	0.00	4.02	27

DO site number	Site name	Average of Sonde Chl-a corr for TriC ug/L	Max of Sonde Chl-a corr for TriC ug/L	Min of Sonde Chl-a corr for TriC ug/L	StdDev of Sonde Chl-a corr for TriC ug/L	Count of Sonde Chl-a corr for TriC ug/L
64	Moran Drain	13.55	19.38	5.72	5.79	6
65	Spanish Grant Drain	21.61	29.44	14.36	5.52	7
66	ESWD Maze Blv. Drain	21.19	55.04	6.67	23.00	4
67	Newman Wasteway at Brazo Road	14.52	30.23	5.87	7.92	7
68	S. Lake Basin	13.13	50.31	0.00	17.33	8
69	Santa Fe Canal	3.63	14.51	0.00	7.26	4
80	South Marsh 1 Inlet	13.28	72.71	0.00	19.42	21
81	South Marsh 1 Outlet	7.09	20.37	0.00	5.70	22
82	South Marsh 3 Inlet	19.42	80.11	3.35	18.37	25
83	South Marsh 3 Outlet	25.28	134.43	0.97	31.58	28
84	SJR Garwood Bridge	0.00	0.00	0.00	na	1
86	Ramona Drain Apple Ave	14.84	40.83	0.00	10.83	9
87	Ramona Drain Prune Ave	13.39	25.83	0.00	12.94	3
88	Ramona Drain Apricot Ave	34.86	102.59	16.79	26.15	9
89	Ramona Drain Pomelo Ave	30.89	32.49	28.39	2.19	3
90	Ramona Drain Almond Ave	25.67	25.67	25.67	na	1
91	Paradise Drain Prune Ave	23.33	46.65	0.00	32.99	2
92	Paradise Drain Apricot Ave	22.71	54.10	7.93	15.88	7
93	Paradise Drain Pomelo Ave	35.34	62.56	15.38	24.42	3
94	Paradise Drain Almond Ave	29.83	42.48	0.00	13.11	8
95	Ramona Lake Entrance	23.15	96.52	0.00	31.29	18
96	WPF-VD-1	40.77	40.77	40.77	na	1
97	WPF-VD-2	31.67	31.67	31.67	na	1
98	WPF-VD-3	56.49	56.49	56.49	na	1
101	WPF-UD-IN	23.76	36.18	11.35	17.56	2
102	WPF-UD-OUT	25.57	37.58	13.57	16.97	2
103	SLD Check 18	31.49	40.41	22.58	12.61	2
104	SLD Check 16	39.61	48.72	30.50	12.89	2
105	SLD Check 15	51.49	61.49	41.50	14.13	2
106	SLD Check 14	64.61	90.22	39.00	36.22	2
107	SLD Check 13	83.58	120.23	46.93	51.83	2
108	SLD Check 12	95.68	132.99	58.38	52.75	2
109	SLD Check 11	92.95	103.04	82.85	14.28	2
110	SLD Check 10	106.29	112.19	100.39	8.35	2
111	SLD Check 9	121.16	134.96	107.37	19.51	2
112	SLD Check 8	136.70	154.59	118.80	25.31	2
113	SLD Check 7	132.39	132.53	132.25	0.20	2
114	SLD Check 6	137.25	158.36	116.15	29.84	2
115	SLD Check 5	139.06	152.20	125.92	18.58	2
116	SLD Check 4	136.44	137.12	135.75	0.97	2
117	SLD Check 3	112.93	123.12	102.74	14.41	2
118	SLD Check 2	121.19	153.02	89.36	45.02	2
119	SLD Check 1	100.52	117.57	83.47	24.11	2
120	South Marsh 1 Intermediary	3.34	11.06	0.00	3.68	11
121	South Marsh 1 East	34.39	189.72	1.50	62.05	10
122	South Marsh 1 West	22.33	77.07	0.00	24.03	10
123	Ramona Lake NW Quad	394.01	467.53	320.49	103.97	2
124	Ramona Lake NE Quad	53.83	104.45	1.88	51.30	3
125	Ramona Lake SW Quad	415.07	415.07	415.07	na	1
126	Ramona Lake SE Quad	374.36	374.36	374.36	na	1
129	Hollow Tree drain	53.81	59.44	47.43	6.04	3
130	Marshall Rd Reservoir Entrance	31.94	74.05	14.96	19.50	7
131	Marshall Rd Reservoir Exit	48.12	122.55	11.04	40.81	7
132	Marshall Rd Res Pond 1W	31.94	39.91	22.63	7.06	5
133	Marshall Rd Res Pond 2E	30.51	41.93	19.54	8.51	5
135	Modesto ID Main Drain Spill	9.10	13.84	4.19	4.32	6

Sonde Chlorophyll-a: SM calibration

DO site number	Site name	Average of Sonde Chl-a Max of Sonde Chl-a corr corr for SM ug/L	Min of Sonde Chl-a corr for SM ug/L	StdDev of Sonde Chl-a corr for SM ug/L	Count of Sonde Chl-a corr for SM ug/L
1	SJR at Channel Point	19.34	48.48	0.00	25.68
2	SJR at Dos Reis Lathrop	45.66	68.80	0.00	39.54
3	SJR at Old River	47.38	73.69	0.00	41.12
4	SJR at Mossdale	36.88	169.06	2.91	39.55
5	SJR at Vernalis	27.96	129.65	2.75	25.83
6	SJR at Maze	31.58	140.14	0.00	29.06
7	SJR at Patterson	37.24	136.97	3.54	29.65
8	SJR at Crows Landing	29.31	103.02	0.00	22.39
9	SJR at Fremont Ford	34.59	69.62	0.00	24.63
10	SJR at Lander Avenue	44.53	166.72	3.33	35.16
11	French Camp Slough	14.23	37.37	0.61	15.00
12	Stanislaus River at Caswell Park	2.10	12.47	-0.35	2.80
13	Stanislaus River at Ripon	2.91	2.91	2.91	na
14	Tuolumne River at Shiloh Bridge	2.71	45.40	0.00	5.79
16	Merced River at River Road	2.05	25.80	0.00	4.17
17	Merced River near Stevenson	2.15	2.15	2.15	na
18	Mud Slough near Gustine	50.94	159.59	0.00	37.92
19	Salt Slough at Lander Avenue	14.86	35.38	0.00	8.30
20	Los Banos Creek at Highway 140	38.62	153.25	0.00	29.53
21	Orestimba Creek at River Road	14.93	208.05	0.00	28.22
22	Modesto ID Lateral 4 to SJR	5.52	7.80	0.00	2.89
23	Modesto ID Lateral 5 to Tuolumne	5.02	31.14	0.00	7.84
24	Modesto ID Lateral 6 to Stanislaus River	3.24	5.98	0.50	3.87
25	MID Main Drain to Stan. R. via Miller Lake	21.11	85.89	0.00	17.08
26	Turlock ID Highline Spill	1.35	2.70	0.00	1.91
27	Turlock ID Lateral 2 to SJR	0.63	2.68	0.00	1.16
28	Turlock ID Westport Drain Flow Station	4.18	47.32	0.00	7.26
29	Turlock ID Harding Drain	5.70	30.70	-1.69	6.44
30	Turlock ID Lateral 6 & 7 at Levee	5.76	25.26	0.00	5.41
31	BCID - New Jerusalem Drain	3.75	16.38	0.00	7.17
32	EI Solyo WD - Grayson Drain	50.78	103.91	0.01	35.80
33	Hospital Creek	25.83	81.20	0.00	23.52
34	Ingram Creek Flow Station	37.92	115.01	1.72	29.57
35	Westley Wasteway Flow Station	22.74	60.04	3.65	17.67
36	Del Puerto Creek Flow Station	15.30	83.15	0.00	15.56
38	Marshall Road Drain	33.11	73.83	7.28	24.68
39	Salado Creek Flow Station	43.33	76.20	14.82	28.33
43	EI Solyo Pumping Station	22.06	22.06	22.06	na
44	San Luis Drain End	121.55	350.06	0.00	74.11
45	Volta Wasteway at Ingomar Grade	4.26	12.85	0.78	3.36
46	Mud Slough at Gun Club Road	24.46	80.67	7.70	25.23
47	Delta-Mendota Cal Hwy 140	1.83	3.30	0.00	1.68
48	FC-5 Grasslands Area Farmers	69.62	99.60	39.64	42.40
49	PE-14-Grasslands Area Farmers	48.11	48.95	47.27	1.19
50	San Luis Drain Site A (Check 18)	33.56	54.31	15.15	16.41
51	Arroyo Cal at Hwy 152	10.85	19.70	2.00	12.52
52	Salt Slough at Sand Dam	14.96	17.10	13.65	1.86
53	Salt Slough at Wolfsen Road	13.59	24.29	6.59	4.55
57	Ramona Lake Drain at Levee	82.58	367.91	0.00	86.87
59	SJR Laird Park	18.30	130.12	0.00	26.58
60	Moffit 1 South	9.38	31.06	0.00	6.59
61	Deadman's Slough	21.46	151.78	0.00	31.31
62	Mallard Slough	15.76	66.41	0.00	14.34
63	Inlet C Canal	8.15	15.21	0.00	3.65

DO site number	Site name	Average of Sonde Chl-a corr for SM ug/L	Max of Sonde Chl-a corr for SM ug/L	Min of Sonde Chl-a corr for SM ug/L	StdDev of Sonde Chl-a corr for SM ug/L	Count of Sonde Chl-a corr for SM ug/L
64	Moran Drain	12.28	17.54	5.19	5.24	6
65	Spanish Grant Drain	19.58	26.68	13.01	5.00	7
66	ESWD Maze Blv. Drain	19.19	49.82	6.04	20.81	4
67	Newman Wasteway at Brazo Road	13.16	27.40	5.32	7.18	7
68	S. Lake Basin	11.90	45.60	0.00	15.71	8
69	Santa Fe Canal	2.78	11.13	0.00	5.57	4
80	South Marsh 1 Inlet	12.03	65.82	0.00	17.59	21
81	South Marsh 1 Outlet	6.42	18.44	0.00	5.16	22
82	South Marsh 3 Inlet	17.60	72.60	3.04	16.65	25
83	South Marsh 3 Outlet	22.91	121.83	0.88	28.61	28
84	SJR Garwood Bridge	12.09	24.17	0.00	17.09	2
86	Ramona Drain Apple Ave	13.44	36.96	0.00	9.80	9
87	Ramona Drain Prune Ave	12.12	23.38	0.00	11.71	3
88	Ramona Drain Apricot Ave	31.59	92.97	15.22	23.70	9
89	Ramona Drain Pomelo Ave	27.96	29.41	25.70	1.98	3
90	Ramona Drain Almond Ave	23.24	23.24	23.24	na	1
91	Paradise Drain Prune Ave	21.11	42.23	0.00	29.86	2
92	Paradise Drain Apricot Ave	20.56	48.97	7.18	14.37	7
93	Paradise Drain Pomelo Ave	31.98	56.63	13.92	22.10	3
94	Paradise Drain Almond Ave	27.02	38.50	0.00	11.88	8
95	Ramona Lake Entrance	20.98	87.48	0.00	28.36	18
96	WPF-VD-1	36.90	36.90	36.90	na	1
97	WPF-VD-2	28.67	28.67	28.67	na	1
98	WPF-VD-3	51.14	51.14	51.14	na	1
101	WPF-UD-IN	21.51	32.74	10.27	15.89	2
102	WPF-UD-OUT	23.15	34.01	12.29	15.36	2
103	SLD Check 18	28.52	36.58	20.46	11.40	2
104	SLD Check 16	35.87	44.10	27.64	11.64	2
105	SLD Check 15	46.63	55.66	37.61	12.76	2
106	SLD Check 14	58.50	81.66	35.35	32.75	2
107	SLD Check 13	75.68	108.82	42.53	46.88	2
108	SLD Check 12	86.64	120.37	52.91	47.70	2
109	SLD Check 11	84.19	93.39	74.99	13.01	2
110	SLD Check 10	96.27	101.68	90.86	7.65	2
111	SLD Check 9	109.75	122.31	97.19	17.77	2
112	SLD Check 8	123.82	140.11	107.53	23.03	2
113	SLD Check 7	119.91	120.11	119.71	0.28	2
114	SLD Check 6	124.30	143.34	105.27	26.92	2
115	SLD Check 5	125.94	137.76	114.12	16.72	2
116	SLD Check 4	123.57	124.11	123.03	0.77	2
117	SLD Check 3	102.28	111.44	93.11	12.96	2
118	SLD Check 2	109.75	138.51	80.99	40.68	2
119	SLD Check 1	91.03	106.42	75.65	21.75	2
120	South Marsh 1 Intermediary	3.02	10.01	0.00	3.33	11
121	South Marsh 1 East	31.13	171.73	1.36	56.16	10
122	South Marsh 1 West	20.22	69.76	0.00	21.76	10
123	Ramona Lake NW Quad	356.91	423.72	290.10	94.49	2
124	Ramona Lake NE Quad	48.76	94.66	1.70	46.49	3
125	Ramona Lake SW Quad	376.17	376.17	376.17	na	1
126	Ramona Lake SE Quad	339.28	339.28	339.28	na	1
129	Hollow Tree drain	48.76	53.87	42.98	5.47	3
130	Marshall Rd Reservoir Entrance	28.94	67.11	13.56	17.67	7
131	Marshall Rd Reservoir Exit	43.61	111.07	10.00	36.98	7
132	Marshall Rd Res Pond 1W	28.95	36.17	20.51	6.40	5
133	Marshall Rd Res Pond 2E	27.65	38.00	17.71	7.71	5
135	Modesto ID Main Drain Spill	8.25	12.55	3.80	3.92	6

LUX (incident light)

DO site number	Site name	Average of LUX (lumen /m2)	Max of LUX (lumen /m2)	Min of LUX (lumen /m2)	StdDev of LUX (lumen /m2)	Count of LUX (lumen /m2)
1	SJR at Channel Point	88000	88000	88000	na	1
2	SJR at Dos Reis Lathrop	107800	107800	107800	na	1
3	SJR at Old River	112500	112500	112500	na	1
4	SJR at Mossdale	26108	109100	970	19718	53
5	SJR at Vernalis	61227	144300	2400	34095	64
6	SJR at Maze	64562	136800	7410	26868	58
7	SJR at Patterson	90638	151600	5100	32205	64
8	SJR at Crows Landing	89679	157100	1800	42909	69
9	SJR at Fremont Ford	51900	74000	34700	17252	4
10	SJR at Lander Avenue	75224	143100	11300	30594	70
11	French Camp Slough	26786	54400	2720	22213	7
12	Stanislaus River at Caswell Park	28162	110600	3090	22158	52
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	73273	138800	9750	27684	56
16	Merced River at River Road	88428	130500	18000	27281	53
17	Merced River near Stevenson	na	na	na	na	na
18	Mud Slough near Gustine	56990	98700	7500	19703	65
19	Salt Slough at Lander Avenue	71979	121200	2800	27991	90
20	Los Banos Creek at Highway 140	49353	96100	7330	21862	56
21	Orestimba Creek at River Road	96978	142800	10250	36376	47
22	Modesto ID Lateral 4 to SJR	126100	126100	126100	na	1
23	Modesto ID Lateral 5 to Tuolumne	76178	154600	14160	31970	20
24	Modesto ID Lateral 6 to Stanislaus River	137900	137900	137900	na	1
25	MID Main Drain to Stan. R. via Miller Lake	65959	134000	9580	29732	38
26	Turlock ID Highline Spill	103600	103600	103600	na	1
27	Turlock ID Lateral 2 to SJR	124375	144300	76100	32298	4
28	Turlock ID Westport Drain Flow Station	79504	117700	16670	25088	42
29	Turlock ID Harding Drain	101444	147600	14300	33930	52
30	Turlock ID Lateral 6 & 7 at Levee	97791	137100	13400	31725	35
31	BCID - New Jerusalem Drain	89956	143900	57900	30889	9
32	EI Solvo WD - Grayson Drain	103380	136100	78600	24815	5
33	Hospital Creek	91794	147000	42600	28096	16
34	Ingram Creek Flow Station	92136	154300	8430	25064	43
35	Westley Wasteway Flow Station	70000	127400	22000	35476	6
36	Del Puerto Creek Flow Station	84406	142300	5740	32492	47
38	Marshall Road Drain	70750	118200	6800	35826	8
39	Salado Creek Flow Station	119875	139900	108100	14740	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	60473	106500	15100	21212	62
45	Volta Wasteway at Ingomar Grade	55670	89200	25400	23983	10
46	Mud Slough at Gun Club Road	53640	75400	29900	15270	10
47	Delta-Mendota Cal Hwy 140	32867	56800	20500	20731	3
48	FC-5 Grasslands Area Farmers	63600	63600	63600	na	1
49	PE-14-Grasslands Area Farmers	74000	74000	74000	na	1
50	San Luis Drain Site A (Check 18)	79233	142200	32200	56705	3
51	Arroyo Cal at Hwy 152	63700	87900	39500	34224	2
52	Salt Slough at Sand Dam	78650	100600	56700	31042	2
53	Salt Slough at Wolfsen Road	69336	126600	21600	31719	28
54	Los Banos Creek at Ingomar Grade	30000	30000	30000	na	1
57	Ramona Lake Drain at Levee	98869	146200	36300	37660	29
59	SJR Laird Park	74367	106400	21100	23452	15
60	Moffit 1 South	32477	67000	5520	19444	21
61	Deadman's Slough	49871	89200	8440	19592	26
62	Mallard Slough	64711	115000	8760	26385	24
63	Inlet C Canal	74552	119100	23800	29427	25

DO site number	Site name	Average of LUX (lumen /m2)	Max of LUX (lumen /m2)	Min of LUX (lumen /m2)	StdDev of LUX (lumen /m2)	Count of LUX (lumen /m2)
64	Moran Drain	82750	126600	6800	43462	6
65	Spanish Grant Drain	75129	125000	6800	41112	7
66	ESWD Maze Blv. Drain	71475	93900	55700	17203	4
67	Newman Wasteway at Brazo Road	51294	89900	13460	28683	7
68	S. Lake Basin	67140	88600	44800	16172	5
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	69867	123600	33600	25906	18
81	South Marsh 1 Outlet	63918	99100	12360	24646	21
82	South Marsh 3 Inlet	74304	124000	27100	30880	25
83	South Marsh 3 Outlet	73929	122500	23600	31772	28
84	SJR Garwood Bridge	na	0	0	na	0
86	Ramona Drain Apple Ave	86738	136000	51600	27218	8
87	Ramona Drain Prune Ave	59450	62600	56300	4455	2
88	Ramona Drain Apricot Ave	93500	121300	70600	16013	8
89	Ramona Drain Pomelo Ave	76550	77200	75900	919	2
90	Ramona Drain Almond Ave	74800	74800	74800	na	1
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	87557	118200	55400	23399	7
93	Paradise Drain Pomelo Ave	78600	80000	77200	1980	2
94	Paradise Drain Almond Ave	90914	121500	77500	16700	7
95	Ramona Lake Entrance	118000	147500	40100	33539	16
96	WPF-VD-1	na	na	na	na	na
97	WPF-VD-2	na	na	na	na	na
98	WPF-VD-3	na	na	na	na	na
101	WPF-UD-IN	34000	34000	34000	na	1
102	WPF-UD-OUT	50500	50500	50500	na	1
103	SLD Check 18	84450	146500	22400	87752	2
104	SLD Check 16	88150	140500	35800	74034	2
105	SLD Check 15	89900	139800	40000	70569	2
106	SLD Check 14	91100	136100	46100	63640	2
107	SLD Check 13	90600	131800	49400	58266	2
108	SLD Check 12	91200	127300	55100	51053	2
109	SLD Check 11	92250	125500	59000	47023	2
110	SLD Check 10	88750	114400	63100	36275	2
111	SLD Check 9	90950	112700	69200	30759	2
112	SLD Check 8	88450	106400	70500	25385	2
113	SLD Check 7	88300	102600	74000	20223	2
114	SLD Check 6	86350	95800	76900	13364	2
115	SLD Check 5	81100	85400	76800	6081	2
116	SLD Check 4	77050	78300	75800	1768	2
117	SLD Check 3	73700	76900	70500	4525	2
118	SLD Check 2	70650	74000	67300	4738	2
119	SLD Check 1	63500	72800	54200	13152	2
120	South Marsh 1 Intermediary	78991	128800	25700	28711	11
121	South Marsh 1 East	68828	108700	15380	28647	10
122	South Marsh 1 West	80489	98200	51900	14546	9
123	Ramona Lake NW Quad	133200	133200	133200	na	1
124	Ramona Lake NE Quad	129200	129200	129200	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	65833	88600	44800	21951	3
130	Marshall Rd Reservoir Entrance	75129	123500	51700	24158	7
131	Marshall Rd Reservoir Exit	93429	136400	62000	26325	7
132	Marshall Rd Res Pond 1W	96040	126600	65300	21972	5
133	Marshall Rd Res Pond 2E	101280	130000	70800	21846	5
135	Modesto ID Main Drain Spill	98817	141200	42300	39896	6

Chlorophyll -a: Standard Methods

DO site number	Site name	Average of Chl-a SM ug/L	Max of Chl-a SM ug/L	Min of Chl-a SM ug/L	StdDev of Chl-a SM ug/L	Count of Chl-a SM ug/L
1	SJR at Channel Point	28.14	41.08	15.19	18.31	2
2	SJR at Dos Reis Lathrop	77.12	83.27	70.97	8.70	2
3	SJR at Old River	76.00	93.58	58.41	24.87	2
4	SJR at Mossdale	44.93	286.61	1.80	59.08	65
5	SJR at Vernalis	29.78	145.63	2.22	33.62	76
6	SJR at Maze	39.47	256.62	0.25	48.59	70
7	SJR at Patterson	42.28	226.01	2.33	45.72	77
8	SJR at Crows Landing	36.46	137.76	0.96	32.77	72
9	SJR at Fremont Ford	57.58	75.07	36.14	18.36	5
10	SJR at Lander Avenue	62.78	233.90	1.95	56.04	73
11	French Camp Slough	14.23	41.06	0.50	14.23	7
12	Stanislaus River at Caswell Park	1.72	6.32	0.00	1.04	63
13	Stanislaus River at Ripon	1.51	1.51	1.51	na	1
14	Tuolumne River at Shiloh Bridge	2.79	10.49	0.25	2.71	67
16	Merced River at River Road	1.92	8.62	0.00	1.74	66
17	Merced River near Stevenson	1.22	1.22	1.22	na	1
18	Mud Slough near Gustine	53.06	240.08	4.08	49.92	68
19	Salt Slough at Lander Avenue	14.05	38.45	1.81	8.92	79
20	Los Banos Creek at Highway 140	34.54	216.39	2.05	41.87	58
21	Orestimba Creek at River Road	8.34	169.30	0.81	23.61	59
22	Modesto ID Lateral 4 to SJR	2.65	4.54	1.05	1.30	6
23	Modesto ID Lateral 5 to Tuolumne	4.89	35.97	0.37	8.47	29
24	Modesto ID Lateral 6 to Stanislaus River	1.52	1.97	1.07	0.64	2
25	MID Main Drain to Stan. R. via Miller Lake	18.35	70.68	0.76	14.89	38
26	Turlock ID Highline Spill	1.35	2.37	0.33	1.44	2
27	Turlock ID Lateral 2 to SJR	2.29	3.07	1.01	0.97	4
28	Turlock ID Westport Drain Flow Station	4.42	41.10	0.52	6.44	47
29	Turlock ID Harding Drain	3.45	9.20	0.84	1.90	64
30	Turlock ID Lateral 6 & 7 at Levee	3.32	19.77	0.00	3.27	35
31	BCID - New Jerusalem Drain	0.34	0.89	0.13	0.26	8
32	EI Solvo WD - Grayson Drain	71.05	133.76	7.20	48.48	5
33	Hospital Creek	15.03	68.90	0.86	19.86	17
34	Ingram Creek Flow Station	39.33	171.30	0.61	43.47	44
35	Westley Wasteway Flow Station	30.47	125.51	5.18	42.63	7
36	Del Puerto Creek Flow Station	13.07	74.43	1.59	13.34	57
38	Marshall Road Drain	25.29	65.79	2.91	23.57	8
39	Salado Creek Flow Station	19.87	42.17	4.05	17.74	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	100.88	439.00	7.44	78.51	67
45	Volta Wasteway at Ingomar Grade	18.86	18.86	18.86	na	1
46	Mud Slough at Gun Club Road	19.06	19.06	19.06	na	1
47	Delta-Mendota Cal Hwy 140	2.65	2.79	2.58	0.12	3
48	FC-5 Grasslands Area Farmers	73.87	99.60	48.13	36.40	2
49	PE-14-Grasslands Area Farmers	53.88	60.49	47.27	9.34	2
50	San Luis Drain Site A (Check 18)	38.65	75.06	15.15	25.57	4
51	Arroyo Cal at Hwy 152	14.13	15.22	13.03	1.55	2
52	Salt Slough at Sand Dam	7.70	12.69	2.14	5.30	3
53	Salt Slough at Wolfsen Road	8.09	8.76	7.43	0.94	2
57	Ramona Lake Drain at Levee	119.72	652.20	4.40	123.67	29
59	SJR Laird Park	31.75	130.12	2.12	31.99	22
60	Moffit 1 South	na	na	na	na	na
61	Deadman's Slough	na	na	na	na	na
62	Mallard Slough	na	na	na	na	na
63	Inlet C Canal	na	na	na	na	na

DO site number	Site name	Average of Chl-a SM ug/L	Max of Chl-a SM ug/L	Min of Chl-a SM ug/L	StdDev of Chl-a SM ug/L	Count of Chl-a SM ug/L
64	Moran Drain	6.61	12.08	1.66	3.85	6
65	Spanish Grant Drain	8.36	12.29	5.45	2.57	7
66	ESWD Maze Blv. Drain	16.83	36.89	1.92	18.05	3
67	Newman Wasteway at Brazo Road	6.12	10.79	0.00	4.43	7
68	S. Lake Basin	10.58	16.29	4.87	8.08	2
69	Santa Fe Canal	11.13	11.13	11.13	na	1
80	South Marsh 1 Inlet	na	na	na	na	na
81	South Marsh 1 Outlet	na	na	na	na	na
82	South Marsh 3 Inlet	28.31	39.19	17.42	15.39	2
83	South Marsh 3 Outlet	27.92	31.93	23.91	5.68	2
84	SJR Garwood Bridge	49.30	49.30	49.30	na	1
86	Ramona Drain Apple Ave	6.57	18.27	1.80	5.46	9
87	Ramona Drain Prune Ave	7.98	12.88	2.77	5.06	3
88	Ramona Drain Apricot Ave	40.53	240.13	3.18	75.26	9
89	Ramona Drain Pomelo Ave	16.85	29.16	8.81	10.82	3
90	Ramona Drain Almond Ave	22.33	22.33	22.33	na	1
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	37.55	112.99	3.44	36.51	7
93	Paradise Drain Pomelo Ave	24.64	35.28	8.79	14.00	3
94	Paradise Drain Almond Ave	26.95	39.75	12.80	8.94	7
95	Ramona Lake Entrance	40.81	126.11	4.66	36.62	16
96	WPF-VD-1	2.59	2.59	2.59	na	1
97	WPF-VD-2	2.32	2.32	2.32	na	1
98	WPF-VD-3	3.00	3.00	3.00	na	1
101	WPF-UD-IN	11.43	19.65	3.21	11.62	2
102	WPF-UD-OUT	7.89	8.05	7.74	0.22	2
103	SLD Check 18	34.06	37.81	30.32	5.30	2
104	SLD Check 16	45.36	57.93	32.79	17.78	2
105	SLD Check 15	65.89	95.29	36.50	41.57	2
106	SLD Check 14	61.11	77.15	45.07	22.68	2
107	SLD Check 13	88.89	132.32	45.46	61.42	2
108	SLD Check 12	80.21	108.33	52.08	39.77	2
109	SLD Check 11	71.63	72.44	70.81	1.15	2
110	SLD Check 10	80.96	84.28	77.64	4.69	2
111	SLD Check 9	92.88	96.72	89.04	5.43	2
112	SLD Check 8	96.83	99.76	93.90	4.14	2
113	SLD Check 7	86.80	89.14	84.45	3.31	2
114	SLD Check 6	84.91	87.63	82.20	3.83	2
115	SLD Check 5	87.76	92.52	82.99	6.74	2
116	SLD Check 4	114.53	154.29	74.78	56.22	2
117	SLD Check 3	70.82	79.47	62.17	12.24	2
118	SLD Check 2	88.68	126.66	50.70	53.71	2
119	SLD Check 1	86.26	124.36	48.16	53.88	2
120	South Marsh 1 Intermediary	na	na	na	na	na
121	South Marsh 1 East	na	na	na	na	na
122	South Marsh 1 West	na	na	na	na	na
123	Ramona Lake NW Quad	242.85	242.85	242.85	na	1
124	Ramona Lake NE Quad	20.39	20.39	20.39	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	na	na	na	na	na
130	Marshall Rd Reservoir Entrance	17.03	37.72	6.63	10.12	7
131	Marshall Rd Reservoir Exit	32.91	73.24	8.42	27.57	7
132	Marshall Rd Res Pond 1W	17.46	26.77	10.70	6.90	5
133	Marshall Rd Res Pond 2E	16.81	30.12	11.73	7.67	5
135	Modesto ID Main Drain Spill	4.48	7.88	2.55	2.00	6

Chlorophyll a: Trichromatic method

DO site number	Site name	Average of Chl-a TriChrom ug/L	Max of Chl-a TriChrom ug/L	Min of Chl-a TriChrom ug/L	StdDev of Chl-a TriChrom ug/L	Count of Chl-a TriChrom ug/L
1	SJR at Channel Point	40.79	56.04	25.53	21.57	2
2	SJR at Dos Reis Lathrop	88.97	95.61	82.33	9.39	2
3	SJR at Old River	84.60	103.54	65.66	26.78	2
4	SJR at Mossdale	50.86	303.32	3.00	64.29	65
5	SJR at Vernalis	33.88	152.28	2.84	35.87	76
6	SJR at Maze	44.30	265.06	1.60	51.61	70
7	SJR at Patterson	46.37	233.58	2.44	47.49	77
8	SJR at Crows Landing	40.10	147.78	7.33	33.74	72
9	SJR at Fremont Ford	63.72	82.22	44.55	17.12	5
10	SJR at Lander Avenue	71.28	230.60	3.06	59.69	73
11	French Camp Slough	17.77	45.08	1.24	16.58	7
12	Stanislaus River at Caswell Park	2.43	6.89	0.09	1.33	64
13	Stanislaus River at Ripon	2.97	2.97	2.97	na	1
14	Tuolumne River at Shiloh Bridge	3.46	12.41	0.32	3.03	66
16	Merced River at River Road	2.62	13.69	0.00	2.27	66
17	Merced River near Stevenson	2.10	2.10	2.10	na	1
18	Mud Slough near Gustine	61.02	273.50	5.61	52.44	68
19	Salt Slough at Lander Avenue	17.35	44.16	3.58	10.09	79
20	Los Banos Creek at Highway 140	42.55	244.19	2.83	46.66	58
21	Orestimba Creek at River Road	9.79	176.31	0.85	24.55	59
22	Modesto ID Lateral 4 to SJR	3.14	4.68	1.47	1.36	6
23	Modesto ID Lateral 5 to Tuolumne	5.24	48.22	0.16	8.96	29
24	Modesto ID Lateral 6 to Stanislaus River	2.57	3.44	1.69	1.24	2
25	MID Main Drain to Stan. R. via Miller Lake	24.47	80.81	1.19	18.10	38
26	Turlock ID Highline Spill	0.84	1.16	0.51	0.46	2
27	Turlock ID Lateral 2 to SJR	2.76	4.42	1.16	1.36	4
28	Turlock ID Westport Drain Flow Station	5.99	48.68	0.78	7.59	47
29	Turlock ID Harding Drain	4.90	14.48	1.15	2.74	64
30	Turlock ID Lateral 6 & 7 at Levee	4.79	26.47	1.13	4.36	35
31	BCID - New Jerusalem Drain	0.28	0.82	0.02	0.28	9
32	EI Solyo WD - Grayson Drain	78.23	139.90	7.84	49.51	5
33	Hospital Creek	17.09	73.19	0.83	20.98	17
34	Ingram Creek Flow Station	43.98	184.39	0.71	47.39	44
35	Westley Wasteway Flow Station	35.43	146.12	7.76	49.63	7
36	Del Puerto Creek Flow Station	21.79	213.17	2.62	31.45	58
38	Marshall Road Drain	33.55	90.55	5.03	30.36	8
39	Salado Creek Flow Station	25.28	47.31	12.44	16.46	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	110.98	315.56	10.74	74.54	67
45	Volta Wasteway at Ingomar Grade	23.70	23.70	23.70	na	1
46	Mud Slough at Gun Club Road	22.67	22.67	22.67	na	1
47	Delta-Mendota Cal Hwy 140	4.18	4.75	3.87	0.49	3
48	FC-5 Grasslands Area Farmers	83.15	110.24	56.05	38.32	2
49	PE-14-Grasslands Area Farmers	59.36	66.80	51.93	10.51	2
50	San Luis Drain Site A (Check 18)	44.11	84.88	17.33	28.74	4
51	Arroyo Cal at Hwy 152	19.32	19.50	19.14	0.26	2
52	Salt Slough at Sand Dam	11.35	20.80	3.15	8.89	3
53	Salt Slough at Wolfsen Road	11.84	13.25	10.43	2.00	2
57	Ramona Lake Drain at Levee	132.02	688.31	5.75	132.32	29
59	SJR Laird Park	36.05	166.64	3.32	35.48	22
60	Moffit 1 South	na	na	na	na	na
61	Deadman's Slough	na	na	na	na	na
62	Mallard Slough	na	na	na	na	na
63	Inlet C Canal	na	na	na	na	na

DO site number	Site name	Average of Chl-a TriChrom ug/L	Max of Chl-a TriChrom ug/L	Min of Chl-a TriChrom ug/L	StdDev of Chl-a TriChrom ug/L	Count of Chl-a TriChrom ug/L
64	Moran Drain	8.57	14.14	1.84	5.06	6
65	Spanish Grant Drain	10.59	16.18	8.00	2.88	7
66	ESWD Maze Blv. Drain	19.06	41.03	3.34	19.61	3
67	Newman Wasteway at Brazo Road	10.14	14.46	0.00	4.89	7
68	S. Lake Basin	13.00	19.84	6.17	9.66	2
69	Santa Fe Canal	14.51	14.51	14.51	na	1
80	South Marsh 1 Inlet	na	na	na	na	na
81	South Marsh 1 Outlet	na	na	na	na	na
82	South Marsh 3 Inlet	36.50	51.03	21.98	20.54	2
83	South Marsh 3 Outlet	35.20	40.36	30.04	7.30	2
84	SJR Garwood Bridge	67.30	67.30	67.30	na	1
86	Ramona Drain Apple Ave	8.59	23.01	1.92	7.38	9
87	Ramona Drain Prune Ave	9.09	14.03	4.12	4.95	3
88	Ramona Drain Apricot Ave	43.73	248.16	6.82	77.06	9
89	Ramona Drain Pomelo Ave	19.61	31.41	11.14	10.54	3
90	Ramona Drain Almond Ave	24.00	24.00	24.00	na	1
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	41.36	126.95	4.15	41.23	7
93	Paradise Drain Pomelo Ave	28.04	36.27	13.83	12.36	3
94	Paradise Drain Almond Ave	29.27	39.73	14.58	8.64	7
95	Ramona Lake Entrance	45.68	144.07	5.71	39.92	16
96	WPF-VD-1	3.08	3.08	3.08	na	1
97	WPF-VD-2	3.02	3.02	3.02	na	1
98	WPF-VD-3	2.47	2.47	2.47	na	1
101	WPF-UD-IN	11.66	18.97	4.34	10.35	2
102	WPF-UD-OUT	8.36	8.44	8.27	0.12	2
103	SLD Check 18	39.45	44.37	34.53	6.96	2
104	SLD Check 16	51.05	65.69	36.41	20.70	2
105	SLD Check 15	71.87	103.62	40.12	44.91	2
106	SLD Check 14	62.56	76.47	48.66	19.67	2
107	SLD Check 13	94.26	137.26	51.25	60.82	2
108	SLD Check 12	86.78	116.22	57.34	41.64	2
109	SLD Check 11	78.40	78.93	77.87	0.75	2
110	SLD Check 10	87.99	91.65	84.34	5.16	2
111	SLD Check 9	101.55	106.18	96.91	6.56	2
112	SLD Check 8	106.55	110.15	102.95	5.09	2
113	SLD Check 7	94.12	97.28	90.95	4.48	2
114	SLD Check 6	91.05	94.30	87.79	4.60	2
115	SLD Check 5	92.71	96.48	88.95	5.32	2
116	SLD Check 4	125.60	170.16	81.04	63.02	2
117	SLD Check 3	76.15	84.26	68.03	11.48	2
118	SLD Check 2	96.57	137.77	55.37	58.26	2
119	SLD Check 1	93.96	133.94	53.99	56.53	2
120	South Marsh 1 Intermediary	na	na	na	na	na
121	South Marsh 1 East	na	na	na	na	na
122	South Marsh 1 West	na	na	na	na	na
123	Ramona Lake NW Quad	353.32	353.32	353.32	na	1
124	Ramona Lake NE Quad	29.49	29.49	29.49	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	na	na	na	na	na
130	Marshall Rd Reservoir Entrance	21.32	44.50	7.92	11.65	7
131	Marshall Rd Reservoir Exit	41.47	89.74	12.05	32.61	7
132	Marshall Rd Res Pond 1W	20.64	31.70	12.81	8.58	5
133	Marshall Rd Res Pond 2E	19.39	33.65	13.04	8.28	5
135	Modesto ID Main Drain Spill	6.81	10.16	4.49	2.02	6

Pheophytin: standard methods

DO site number	Site name	Average of Pheophytin SM ug/L	Max of Pheophytin SM ug/L	Min of Pheophytin SM ug/L	StdDev of Pheophytin SM ug/L	Count of Pheophytin SM ug/L
1	SJR at Channel Point	18.91	21.85	15.97	4.16	2
2	SJR at Dos Reis Lathrop	14.34	14.46	14.21	0.18	2
3	SJR at Old River	9.15	10.08	8.22	1.32	2
4	SJR at Mossdale	7.39	32.42	0.00	6.35	62
5	SJR at Vernalis	5.12	18.98	0.00	3.72	74
6	SJR at Maze	5.58	18.42	0.00	4.12	69
7	SJR at Patterson	4.61	27.85	0.00	4.18	75
8	SJR at Crows Landing	4.70	25.45	0.00	4.09	70
9	SJR at Fremont Ford	7.11	11.57	0.00	4.32	5
10	SJR at Lander Avenue	11.32	51.69	0.00	10.93	72
11	French Camp Slough	4.80	13.46	1.03	5.44	7
12	Stanislaus River at Caswell Park	1.26	3.01	0.00	0.60	59
13	Stanislaus River at Ripon	2.35	2.35	2.35	na	1
14	Tuolumne River at Shiloh Bridge	1.41	11.70	0.00	1.65	63
16	Merced River at River Road	0.93	3.81	0.00	0.73	63
17	Merced River near Stevenson	1.37	1.37	1.37	na	1
18	Mud Slough near Gustine	11.30	58.29	0.00	10.95	67
19	Salt Slough at Lander Avenue	4.90	15.86	0.83	2.63	76
20	Los Banos Creek at Highway 140	12.55	132.17	0.00	20.42	57
21	Orestimba Creek at River Road	2.01	8.07	0.00	1.73	57
22	Modesto ID Lateral 4 to SJR	1.25	3.25	0.43	1.34	4
23	Modesto ID Lateral 5 to Tuolumne	2.44	25.65	0.00	5.11	25
24	Modesto ID Lateral 6 to Stanislaus River	1.63	2.34	0.92	1.01	2
25	MID Main Drain to Stan. R. via Miller Lake	9.07	43.98	0.42	9.25	38
26	Turlock ID Highline Spill	0.23	0.23	0.23	na	1
27	Turlock ID Lateral 2 to SJR	0.66	2.09	0.00	0.97	4
28	Turlock ID Westport Drain Flow Station	2.38	10.50	0.04	2.04	46
29	Turlock ID Harding Drain	2.38	11.79	0.45	1.97	60
30	Turlock ID Lateral 6 & 7 at Levee	2.35	13.57	0.05	2.79	35
31	BCID - New Jerusalem Drain	0.07	0.21	0.00	0.09	7
32	EI Solyo WD - Grayson Drain	6.78	19.41	0.89	7.70	5
33	Hospital Creek	2.62	10.21	0.00	3.02	17
34	Ingram Creek Flow Station	5.06	23.92	0.00	4.75	44
35	Westley Wasteway Flow Station	9.75	26.07	4.05	8.25	6
36	Del Puerto Creek Flow Station	8.28	43.35	0.15	9.68	56
38	Marshall Road Drain	11.96	36.03	1.78	11.44	8
39	Salado Creek Flow Station	7.50	13.38	2.39	4.68	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	13.64	94.32	0.00	16.49	67
45	Volta Wasteway at Ingomar Grade	6.69	6.69	6.69	na	1
46	Mud Slough at Gun Club Road	4.92	4.92	4.92	na	1
47	Delta-Mendota Cal Hwy 140	2.31	2.97	1.93	0.58	3
48	FC-5 Grasslands Area Farmers	10.68	11.13	10.23	0.63	2
49	PE-14-Grasslands Area Farmers	5.86	6.46	5.26	0.85	2
50	San Luis Drain Site A (Check 18)	6.57	11.55	2.68	3.81	4
51	Arroyo Cal at Hwy 152	7.62	9.76	5.48	3.02	2
52	Salt Slough at Sand Dam	5.54	12.63	1.51	6.17	3
53	Salt Slough at Wolfsen Road	5.65	6.89	4.41	1.76	2
57	Ramona Lake Drain at Levee	13.65	86.29	0.00	18.20	29
59	SJR Laird Park	9.36	52.19	0.44	13.08	20
60	Moffit 1 South	na	na	na	na	na
61	Deadman's Slough	na	na	na	na	na
62	Mallard Slough	na	na	na	na	na
63	Inlet C Canal	na	na	na	na	na

DO site number	Site name	Average of Pheophytin SM ug/L	Max of Pheophytin SM ug/L	Min of Pheophytin SM ug/L	StdDev of Pheophytin SM ug/L	Count of Pheophytin SM ug/L
64	Moran Drain	2.80	6.59	0.15	2.52	6
65	Spanish Grant Drain	3.15	5.53	0.43	1.83	7
66	ESWD Maze Blv. Drain	2.57	4.24	1.26	1.52	3
67	Newman Wasteway at Brazo Road	6.24	21.37	0.00	6.97	7
68	S. Lake Basin	3.37	4.89	1.85	2.14	2
69	Santa Fe Canal	4.92	4.92	4.92	na	1
80	South Marsh 1 Inlet	na	na	na	na	na
81	South Marsh 1 Outlet	na	na	na	na	na
82	South Marsh 3 Inlet	12.58	18.33	6.83	8.13	2
83	South Marsh 3 Outlet	10.90	12.58	9.22	2.38	2
84	SJR Garwood Bridge	26.35	26.35	26.35	na	1
86	Ramona Drain Apple Ave	3.05	15.28	0.00	4.89	9
87	Ramona Drain Prune Ave	1.87	2.48	1.09	0.71	3
88	Ramona Drain Apricot Ave	4.20	9.63	0.03	2.78	9
89	Ramona Drain Pomelo Ave	5.33	7.48	3.09	2.20	3
90	Ramona Drain Almond Ave	5.95	5.95	5.95	na	1
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	4.73	18.51	0.96	6.23	7
93	Paradise Drain Pomelo Ave	6.60	9.29	2.84	3.36	3
94	Paradise Drain Almond Ave	3.01	5.07	0.99	1.56	7
95	Ramona Lake Entrance	5.53	21.79	1.13	5.06	16
96	WPF-VD-1	0.36	0.36	0.36	na	1
97	WPF-VD-2	0.68	0.68	0.68	na	1
98	WPF-VD-3	0.00	0.00	0.00	na	1
101	WPF-UD-IN	1.39	1.42	1.36	0.04	2
102	WPF-UD-OUT	0.89	1.67	0.12	1.09	2
103	SLD Check 18	6.71	8.20	5.21	2.11	2
104	SLD Check 16	6.56	9.03	4.09	3.49	2
105	SLD Check 15	5.63	7.46	3.81	2.58	2
106	SLD Check 14	1.57	3.14	0.00	2.22	2
107	SLD Check 13	3.35	6.71	0.00	4.74	2
108	SLD Check 12	5.65	5.92	5.39	0.38	2
109	SLD Check 11	6.43	8.60	4.26	3.07	2
110	SLD Check 10	6.13	6.32	5.93	0.28	2
111	SLD Check 9	8.07	9.25	6.88	1.68	2
112	SLD Check 8	9.61	10.65	8.56	1.48	2
113	SLD Check 7	6.29	7.66	4.91	1.94	2
114	SLD Check 6	4.36	5.09	3.64	1.02	2
115	SLD Check 5	2.26	4.27	0.26	2.83	2
116	SLD Check 4	10.57	15.74	5.41	7.30	2
117	SLD Check 3	3.96	5.51	2.42	2.19	2
118	SLD Check 2	7.10	9.94	4.26	4.01	2
119	SLD Check 1	6.97	7.53	6.41	0.79	2
120	South Marsh 1 Intermediary	na	na	na	na	na
121	South Marsh 1 East	na	na	na	na	na
122	South Marsh 1 West	na	na	na	na	na
123	Ramona Lake NW Quad	164.74	164.74	164.74	na	1
124	Ramona Lake NE Quad	13.59	13.59	13.59	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	na	na	na	na	na
130	Marshall Rd Reservoir Entrance	5.96	9.27	1.54	2.41	7
131	Marshall Rd Reservoir Exit	12.06	30.40	3.48	8.57	7
132	Marshall Rd Res Pond 1W	4.07	7.46	1.89	2.71	5
133	Marshall Rd Res Pond 2E	3.16	4.51	1.32	1.28	5
135	Modesto ID Main Drain Spill	3.51	5.08	2.64	0.85	6

pH 4.5 Alkalinity

DO site number	Site name	Average of 4.5 Alk, mg CaCO ₃ /L	Max of 4.5 Alk, mg CaCO ₃ /L	Min of 4.5 Alk, mg CaCO ₃ /L	StdDev of 4.5 Alk, mg CaCO ₃ /L	Count of 4.5 Alk, mg CaCO ₃ /L
1	SJR at Channel Point	75.50	76.00	75.00	0.71	2
2	SJR at Dos Reis Lathrop	82.00	82.00	82.00	0.00	2
3	SJR at Old River	83.00	84.00	82.00	1.41	2
4	SJR at Mossdale	81.33	129.00	29.00	30.89	64
5	SJR at Vernalis	82.60	130.00	27.00	30.45	70
6	SJR at Maze	102.23	168.00	28.00	43.06	69
7	SJR at Patterson	119.90	186.60	27.00	46.97	72
8	SJR at Crows Landing	119.42	202.00	26.00	44.26	79
9	SJR at Fremont Ford	157.23	180.40	145.90	15.89	4
10	SJR at Lander Avenue	146.30	248.00	18.00	61.31	82
11	French Camp Slough	78.36	119.00	39.00	31.13	7
12	Stanislaus River at Caswell Park	36.43	56.60	22.00	6.49	65
13	Stanislaus River at Ripon	43.00	43.00	43.00	na	1
14	Tuolumne River at Shiloh Bridge	49.39	178.40	18.00	25.96	65
16	Merced River at River Road	43.04	124.00	16.00	23.69	66
17	Merced River near Stevenson	17.00	17.00	17.00	na	1
18	Mud Slough near Gustine	169.00	308.00	80.60	60.14	75
19	Salt Slough at Lander Avenue	158.55	254.00	104.00	32.56	102
20	Los Banos Creek at Highway 140	239.21	544.00	0.00	94.64	65
21	Orestimba Creek at River Road	134.33	232.00	42.00	47.06	59
22	Modesto ID Lateral 4 to SJR	86.07	268.40	21.00	94.45	6
23	Modesto ID Lateral 5 to Tuolumne	36.03	160.00	15.00	30.20	29
24	Modesto ID Lateral 6 to Stanislaus River	25.50	27.00	24.00	2.12	2
25	MID Main Drain to Stan. R. via Miller Lake	132.09	405.00	77.00	58.53	39
26	Turlock ID Highline Spill	17.80	18.60	17.00	1.13	2
27	Turlock ID Lateral 2 to SJR	41.78	65.00	19.00	20.18	4
28	Turlock ID Westport Drain Flow Station	199.01	361.00	47.00	87.30	50
29	Turlock ID Harding Drain	141.73	225.00	60.00	38.98	64
30	Turlock ID Lateral 6 & 7 at Levee	150.59	286.00	80.00	49.99	35
31	BCID - New Jerusalem Drain	308.62	324.00	292.00	11.38	9
32	EI Solvo WD - Grayson Drain	127.80	185.00	90.00	39.59	5
33	Hospital Creek	84.29	133.00	36.00	23.68	17
34	Ingram Creek Flow Station	139.62	262.00	27.10	50.40	44
35	Westley Wasteway Flow Station	90.14	115.00	74.00	13.56	7
36	Del Puerto Creek Flow Station	141.10	388.00	64.00	65.10	58
38	Marshall Road Drain	114.38	174.60	73.00	35.12	8
39	Salado Creek Flow Station	164.25	185.00	144.40	19.60	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	136.07	226.00	61.40	45.52	72
45	Volta Wasteway at Ingomar Grade	177.82	336.00	75.00	101.91	11
46	Mud Slough at Gun Club Road	271.73	438.00	185.00	93.60	11
47	Delta-Mendota Cal Hwy 140	68.20	76.00	62.00	7.14	3
48	FC-5 Grasslands Area Farmers	185.00	198.00	172.00	18.38	2
49	PE-14-Grasslands Area Farmers	152.00	162.00	142.00	14.14	2
50	San Luis Drain Site A (Check 18)	175.05	182.00	169.00	5.45	4
51	Arroyo Cal at Hwy 152	118.25	120.50	116.00	3.18	2
52	Salt Slough at Sand Dam	136.67	154.00	120.00	17.01	3
53	Salt Slough at Wolfsen Road	168.12	369.00	117.00	47.23	30
57	Ramona Lake Drain at Levee	178.78	252.00	135.00	29.00	30
59	SJR Laird Park	100.61	166.00	36.00	30.75	22
60	Moffit 1 South	163.09	256.00	117.00	46.98	18
61	Deadman's Slough	167.78	290.00	83.00	54.30	23
62	Mallard Slough	245.60	782.00	90.00	137.73	23
63	Inlet C Canal	114.84	250.00	65.00	39.79	26

DO site number	Site name	Average of 4.5 Alk, mg CaCO3/L	Max of 4.5 Alk, mg CaCO3/L	Min of 4.5 Alk, mg CaCO3/L	StdDev of 4.5 Alk, mg CaCO3/L	Count of 4.5 Alk, mg CaCO3/L
64	Moran Drain	138.97	196.00	81.00	57.39	6
65	Spanish Grant Drain	168.11	250.00	102.00	56.13	7
66	ESWD Maze Blv. Drain	79.00	82.00	74.00	3.83	4
67	Newman Wasteway at Brazo Road	257.63	412.00	82.40	111.48	7
68	S. Lake Basin	323.60	454.00	188.00	125.53	5
69	Santa Fe Canal	97.00	97.00	97.00	na	1
80	South Marsh 1 Inlet	107.88	151.60	75.00	26.26	18
81	South Marsh 1 Outlet	123.19	194.00	79.00	28.66	20
82	South Marsh 3 Inlet	128.98	208.60	78.00	38.93	25
83	South Marsh 3 Outlet	133.01	204.40	74.60	42.20	28
84	SJR Garwood Bridge	81.00	81.00	81.00	na	1
86	Ramona Drain Apple Ave	162.11	193.60	118.00	27.39	9
87	Ramona Drain Prune Ave	98.00	111.00	87.00	12.12	3
88	Ramona Drain Apricot Ave	164.57	203.60	72.00	43.35	9
89	Ramona Drain Pomelo Ave	153.33	230.00	100.00	68.07	3
90	Ramona Drain Almond Ave	176.00	176.00	176.00	na	1
91	Paradise Drain Prune Ave	80.00	80.00	80.00	na	1
92	Paradise Drain Apricot Ave	183.56	329.00	105.00	72.10	7
93	Paradise Drain Pomelo Ave	196.33	335.00	104.00	122.27	3
94	Paradise Drain Almond Ave	185.86	338.00	99.00	74.97	7
95	Ramona Lake Entrance	198.59	272.00	137.40	38.02	17
96	WPF-VD-1	64.00	64.00	64.00	na	1
97	WPF-VD-2	64.00	64.00	64.00	na	1
98	WPF-VD-3	106.00	106.00	106.00	na	1
101	WPF-UD-IN	87.00	110.00	64.00	32.53	2
102	WPF-UD-OUT	91.84	116.67	67.00	35.12	2
103	SLD Check 18	177.00	178.00	176.00	1.41	2
104	SLD Check 16	163.50	166.00	161.00	3.54	2
105	SLD Check 15	162.00	165.00	159.00	4.24	2
106	SLD Check 14	154.00	156.00	152.00	2.83	2
107	SLD Check 13	159.20	163.40	155.00	5.94	2
108	SLD Check 12	163.80	166.00	161.60	3.11	2
109	SLD Check 11	153.00	165.00	141.00	16.97	2
110	SLD Check 10	127.00	134.00	120.00	9.90	2
111	SLD Check 9	133.00	151.00	115.00	25.46	2
112	SLD Check 8	140.20	146.00	134.40	8.20	2
113	SLD Check 7	144.15	148.00	140.30	5.44	2
114	SLD Check 6	133.00	137.00	129.00	5.66	2
115	SLD Check 5	114.50	117.00	112.00	3.54	2
116	SLD Check 4	108.00	120.00	96.00	16.97	2
117	SLD Check 3	110.70	118.40	103.00	10.89	2
118	SLD Check 2	102.20	109.40	95.00	10.18	2
119	SLD Check 1	104.00	114.00	94.00	14.14	2
120	South Marsh 1 Intermediary	108.74	137.10	74.00	25.15	11
121	South Marsh 1 East	115.81	198.00	76.00	37.15	10
122	South Marsh 1 West	157.96	186.00	107.00	26.45	9
123	Ramona Lake NW Quad	169.00	180.00	158.00	15.56	2
124	Ramona Lake NE Quad	184.00	226.00	160.00	36.50	3
125	Ramona Lake SW Quad	180.00	180.00	180.00	na	1
126	Ramona Lake SE Quad	186.00	186.00	186.00	na	1
129	Hollow Tree drain	470.33	499.00	428.00	37.42	3
130	Marshall Rd Reservoir Entrance	118.09	151.60	85.40	26.26	7
131	Marshall Rd Reservoir Exit	133.54	160.40	113.00	16.68	7
132	Marshall Rd Res Pond 1W	121.48	142.00	102.40	17.89	5
133	Marshall Rd Res Pond 2E	124.52	146.00	99.00	19.20	5
135	Modesto ID Main Drain Spill	89.37	119.40	61.60	23.48	6

pH 8.3 Alkalinity

DO site number	Site name	Average of 8.3 Alk, mg CaCO3/L	Max of 8.3 Alk, mg CaCO3/L	Min of 8.3 Alk, mg CaCO3/L	StdDev of 8.3 Alk, mg CaCO3/L	Count of 8.3 Alk, mg CaCO3/L
1	SJR at Channel Point	0.00	0.00	0.00	0.00	2
2	SJR at Dos Reis Lathrop	6.00	8.00	4.00	2.83	2
3	SJR at Old River	5.00	7.00	3.00	2.83	2
4	SJR at Mossdale	1.99	15.60	0.00	4.14	64
5	SJR at Vernalis	0.95	15.20	0.00	2.69	70
6	SJR at Maze	1.00	15.40	0.00	2.68	68
7	SJR at Patterson	0.75	11.00	0.00	2.07	72
8	SJR at Crows Landing	0.33	6.40	0.00	1.10	78
9	SJR at Fremont Ford	0.00	0.00	0.00	0.00	4
10	SJR at Lander Avenue	3.93	22.00	0.00	5.74	81
11	French Camp Slough	0.00	0.00	0.00	0.00	7
12	Stanislaus River at Caswell Park	0.00	0.00	0.00	0.00	65
13	Stanislaus River at Ripon	0.00	0.00	0.00	na	1
14	Tuolumne River at Shiloh Bridge	0.00	0.00	0.00	0.00	64
16	Merced River at River Road	0.00	0.00	0.00	0.00	65
17	Merced River near Stevenson	0.00	0.00	0.00	na	1
18	Mud Slough near Gustine	2.50	18.00	0.00	4.24	75
19	Salt Slough at Lander Avenue	0.10	8.00	0.00	0.82	101
20	Los Banos Creek at Highway 140	0.18	12.00	0.00	1.49	65
21	Orestimba Creek at River Road	0.41	14.00	0.00	2.11	58
22	Modesto ID Lateral 4 to SJR	0.83	2.00	0.00	0.98	6
23	Modesto ID Lateral 5 to Tuolumne	0.96	12.00	0.00	2.92	29
24	Modesto ID Lateral 6 to Stanislaus River	0.00	0.00	0.00	0.00	2
25	MID Main Drain to Stan. R. via Miller Lake	0.38	7.00	0.00	1.48	39
26	Turlock ID Highline Spill	0.00	0.00	0.00	0.00	2
27	Turlock ID Lateral 2 to SJR	0.30	1.18	0.00	0.59	4
28	Turlock ID Westport Drain Flow Station	0.72	8.00	0.00	1.90	50
29	Turlock ID Harding Drain	0.05	2.00	0.00	0.28	64
30	Turlock ID Lateral 6 & 7 at Levee	0.33	4.60	0.00	1.12	35
31	BCID - New Jerusalem Drain	0.00	0.00	0.00	0.00	9
32	EI Solvo WD - Grayson Drain	1.00	4.00	0.00	1.73	5
33	Hospital Creek	0.18	1.50	0.00	0.50	17
34	Ingram Creek Flow Station	0.25	6.00	0.00	1.04	44
35	Westley Wasteway Flow Station	7.57	15.00	0.00	6.08	7
36	Del Puerto Creek Flow Station	1.09	22.00	0.00	3.39	57
38	Marshall Road Drain	0.00	0.00	0.00	0.00	8
39	Salado Creek Flow Station	0.00	0.00	0.00	0.00	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	8.95	23.40	0.00	6.52	72
45	Volta Wasteway at Ingomar Grade	0.00	0.00	0.00	0.00	11
46	Mud Slough at Gun Club Road	0.55	6.00	0.00	1.81	11
47	Delta-Mendota Cal Hwy 140	0.00	0.00	0.00	0.00	3
48	FC-5 Grasslands Area Farmers	10.00	14.00	6.00	5.66	2
49	PE-14-Grasslands Area Farmers	14.00	16.00	12.00	2.83	2
50	San Luis Drain Site A (Check 18)	2.30	8.00	0.00	3.84	4
51	Arroyo Cal at Hwy 152	0.00	0.00	0.00	0.00	2
52	Salt Slough at Sand Dam	0.00	0.00	0.00	0.00	3
53	Salt Slough at Wolfsen Road	0.07	2.00	0.00	0.37	30
57	Ramona Lake Drain at Levee	2.35	29.00	0.00	6.12	30
59	SJR Laird Park	0.00	0.00	0.00	0.00	22
60	Moffit 1 South	0.00	0.00	0.00	0.00	18
61	Deadman's Slough	0.22	5.00	0.00	1.04	23
62	Mallard Slough	0.26	5.00	0.00	1.05	23
63	Inlet C Canal	0.00	0.00	0.00	0.00	26
64	Moran Drain	0.00	0.00	0.00	0.00	6
65	Spanish Grant Drain	0.43	3.00	0.00	1.13	7
66	ESWD Maze Blv. Drain	2.75	8.00	0.00	3.77	4
67	Newman Wasteway at Brazo Road	0.00	0.00	0.00	0.00	7
68	S. Lake Basin	0.00	0.00	0.00	0.00	5

DO site number	Site name	Average of 8.3 Alk, mg CaCO3/L	Max of 8.3 Alk, mg CaCO3/L	Min of 8.3 Alk, mg CaCO3/L	StdDev of 8.3 Alk, mg CaCO3/L	Count of 8.3 Alk, mg CaCO3/L
69	Santa Fe Canal	0.00	0.00	0.00	na	1
80	South Marsh 1 Inlet	0.12	2.20	0.00	0.52	18
81	South Marsh 1 Outlet	0.30	6.00	0.00	1.34	20
82	South Marsh 3 Inlet	0.00	0.00	0.00	0.00	25
83	South Marsh 3 Outlet	0.50	14.00	0.00	2.65	28
84	SJR Garwood Bridge	0.00	0.00	0.00	na	1
86	Ramona Drain Apple Ave	0.00	0.00	0.00	0.00	9
87	Ramona Drain Prune Ave	0.00	0.00	0.00	0.00	3
88	Ramona Drain Apricot Ave	0.00	0.00	0.00	0.00	9
89	Ramona Drain Pomelo Ave	0.00	0.00	0.00	0.00	3
90	Ramona Drain Almond Ave	0.00	0.00	0.00	na	1
91	Paradise Drain Prune Ave	0.00	0.00	0.00	na	1
92	Paradise Drain Apricot Ave	1.57	11.00	0.00	4.16	7
93	Paradise Drain Pomelo Ave	0.00	0.00	0.00	0.00	3
94	Paradise Drain Almond Ave	0.00	0.00	0.00	0.00	7
95	Ramona Lake Entrance	0.00	0.00	0.00	0.00	17
96	WPF-VD-1	0.00	0.00	0.00	na	1
97	WPF-VD-2	0.00	0.00	0.00	na	1
98	WPF-VD-3	0.00	0.00	0.00	na	1
101	WPF-UD-IN	0.00	0.00	0.00	0.00	2
102	WPF-UD-OUT	0.00	0.00	0.00	0.00	2
103	SLD Check 18	0.00	0.00	0.00	0.00	2
104	SLD Check 16	1.80	3.60	0.00	2.55	2
105	SLD Check 15	2.00	4.00	0.00	2.83	2
106	SLD Check 14	5.00	6.00	4.00	1.41	2
107	SLD Check 13	7.00	10.00	4.00	4.24	2
108	SLD Check 12	3.20	3.40	3.00	0.28	2
109	SLD Check 11	7.70	12.40	3.00	6.65	2
110	SLD Check 10	8.00	10.00	6.00	2.83	2
111	SLD Check 9	7.20	8.40	6.00	1.70	2
112	SLD Check 8	9.20	9.40	9.00	0.28	2
113	SLD Check 7	6.50	10.00	3.00	4.95	2
114	SLD Check 6	7.00	8.00	6.00	1.41	2
115	SLD Check 5	12.30	14.00	10.60	2.40	2
116	SLD Check 4	14.50	17.00	12.00	3.54	2
117	SLD Check 3	16.00	24.00	8.00	11.31	2
118	SLD Check 2	13.30	14.00	12.60	0.99	2
119	SLD Check 1	15.80	22.00	9.60	8.77	2
120	South Marsh 1 Intermediary	0.27	3.00	0.00	0.90	11
121	South Marsh 1 East	0.00	0.00	0.00	0.00	10
122	South Marsh 1 West	0.00	0.00	0.00	0.00	9
123	Ramona Lake NW Quad	18.00	18.00	18.00	0.00	2
124	Ramona Lake NE Quad	8.33	25.00	0.00	14.43	3
125	Ramona Lake SW Quad	16.00	16.00	16.00	na	1
126	Ramona Lake SE Quad	14.00	14.00	14.00	na	1
129	Hollow Tree drain	0.00	0.00	0.00	0.00	3
130	Marshall Rd Reservoir Entrance	0.00	0.00	0.00	0.00	7
131	Marshall Rd Reservoir Exit	6.06	13.00	0.00	4.89	7
132	Marshall Rd Res Pond 1W	0.40	2.00	0.00	0.89	5
133	Marshall Rd Res Pond 2E	0.00	0.00	0.00	0.00	5
135	Modesto ID Main Drain Spill	0.00	0.00	0.00	0.00	6

Biochemical Oxygen Demand (10 day)

DO site number	Site name	Average of BOD10	Max of BOD10	Min of BOD10	StdDev of BOD10	Count of BOD10
1	SJR at Channel Point	4.990	5.850	4.130	1.216	2.000
2	SJR at Dos Reis Lathrop	6.283	6.560	6.005	0.392	2.000
3	SJR at Old River	5.950	6.350	5.550	0.566	2.000
4	SJR at Mossdale	3.637	11.310	0.955	2.999	60.000
5	SJR at Vernalis	3.584	15.810	0.880	2.710	64.000
6	SJR at Maze	3.655	10.710	1.070	2.540	62.000
7	SJR at Patterson	4.904	14.190	1.510	2.837	65.000
8	SJR at Crows Landing	3.877	11.370	1.390	2.118	70.000
9	SJR at Fremont Ford	6.874	12.360	3.695	3.287	5.000
10	SJR at Lander Avenue	7.924	21.060	1.130	5.339	71.000
11	French Camp Slough	2.386	5.040	0.830	1.830	7.000
12	Stanislaus River at Caswell Park	1.159	4.310	0.000	0.728	61.000
13	Stanislaus River at Ripon	0.700	0.700	0.700	na	1.000
14	Tuolumne River at Shiloh Bridge	1.297	3.895	0.195	0.906	63.000
16	Merced River at River Road	1.507	6.520	0.550	1.070	62.000
17	Merced River near Stevenson	0.680	0.680	0.680	na	1.000
18	Mud Slough near Gustine	8.512	16.710	2.330	3.721	69.000
19	Salt Slough at Lander Avenue	3.413	6.855	1.530	1.186	90.000
20	Los Banos Creek at Highway 140	10.478	34.300	2.710	6.419	64.000
21	Orestimba Creek at River Road	2.857	11.500	0.836	1.873	53.000
22	Modesto ID Lateral 4 to SJR	2.397	3.600	1.790	0.660	6.000
23	Modesto ID Lateral 5 to Tuolumne	2.172	10.230	0.670	2.170	29.000
24	Modesto ID Lateral 6 to Stanislaus River	5.615	5.615	5.615	na	1.000
25	MID Main Drain to Stan. R. via Miller Lake	6.475	17.700	2.950	3.816	37.000
26	Turlock ID Highline Spill	0.810	0.810	0.810	na	1.000
27	Turlock ID Lateral 2 to SJR	1.397	1.480	1.280	0.104	3.000
28	Turlock ID Westport Drain Flow Station	2.240	13.350	0.610	1.915	44.000
29	Turlock ID Harding Drain	4.625	16.020	1.470	2.509	58.000
30	Turlock ID Lateral 6 & 7 at Levee	2.889	8.430	0.890	1.970	30.000
31	BCID - New Jerusalem Drain	0.446	0.900	0.000	0.320	8.000
32	El Solyo WD - Grayson Drain	11.270	12.270	9.960	1.186	3.000
33	Hospital Creek	9.658	22.950	0.920	7.523	16.000
34	Ingram Creek Flow Station	7.650	22.710	0.700	5.612	37.000
35	Westley Wasteway Flow Station	6.476	16.830	0.790	5.641	6.000
36	Del Puerto Creek Flow Station	6.057	23.610	0.840	4.806	50.000
38	Marshall Road Drain	9.824	19.410	2.510	6.270	6.000
39	Salado Creek Flow Station	18.688	35.600	4.935	15.575	3.000
43	El Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	12.096	20.790	2.000	5.471	66.000
45	Volta Wasteway at Ingomar Grade	2.038	5.040	0.730	1.373	10.000
46	Mud Slough at Gun Club Road	7.655	14.520	3.880	3.818	10.000
47	Delta-Mendota Cal Hwy 140	1.248	1.515	0.990	0.263	3.000
48	FC-5 Grasslands Area Farmers	18.420	18.420	18.420	na	1.000
49	PE-14-Grasslands Area Farmers	6.550	6.550	6.550	na	1.000
50	San Luis Drain Site A (Check 18)	5.243	5.980	4.505	1.043	2.000
51	Arroyo Cal at Hwy 152	7.540	7.540	7.540	na	1.000
52	Salt Slough at Sand Dam	5.913	6.175	5.650	0.371	2.000
53	Salt Slough at Wolfsen Road	4.029	7.225	2.230	1.329	26.000
57	Ramona Lake Drain at Levee	16.515	30.700	2.990	7.039	24.000
59	SJR Laird Park	3.860	6.815	2.090	1.313	22.000
60	Moffit 1 South	4.273	14.400	1.170	3.403	17.000
61	Deadman's Slough	5.320	19.100	1.300	4.919	21.000
62	Mallard Slough	3.523	11.550	0.420	2.945	20.000
63	Inlet C Canal	2.424	7.020	0.915	1.507	24.000

DO site number	Site name	Average of BOD10	Max of BOD10	Min of BOD10	StdDev of BOD10	Count of BOD10
64	Moran Drain	5.114	9.510	1.425	4.008	4.000
65	Spanish Grant Drain	7.322	12.000	1.660	4.512	5.000
66	ESWD Maze Blv. Drain	3.042	6.115	1.490	2.662	3.000
67	Newman Wasteway at Brazo Road	4.783	11.520	2.380	3.358	6.000
68	S. Lake Basin	8.584	19.350	1.440	7.189	5.000
69	Santa Fe Canal	2.570	2.570	2.570	na	1.000
80	South Marsh 1 Inlet	2.341	5.385	1.100	1.349	16.000
81	South Marsh 1 Outlet	5.611	35.600	1.410	7.819	18.000
82	South Marsh 3 Inlet	6.763	18.990	2.300	4.589	21.000
83	South Marsh 3 Outlet	6.962	25.500	1.590	5.837	24.000
84	SJR Garwood Bridge	6.420	6.420	6.420	na	1.000
86	Ramona Drain Apple Ave	16.024	32.100	4.100	8.639	8.000
87	Ramona Drain Prune Ave	7.495	13.740	3.585	5.465	3.000
88	Ramona Drain Apricot Ave	15.185	24.000	5.764	8.186	9.000
89	Ramona Drain Pomelo Ave	12.700	21.450	4.770	8.370	3.000
90	Ramona Drain Almond Ave	4.605	4.605	4.605	na	1.000
91	Paradise Drain Prune Ave	13.350	13.350	13.350	na	1.000
92	Paradise Drain Apricot Ave	8.953	14.940	5.225	3.104	7.000
93	Paradise Drain Pomelo Ave	8.212	13.470	4.115	4.784	3.000
94	Paradise Drain Almond Ave	8.496	17.430	5.175	4.212	7.000
95	Ramona Lake Entrance	13.013	19.920	8.560	4.141	13.000
96	WPF-VD-1	22.740	22.740	22.740	na	1.000
97	WPF-VD-2	21.330	21.330	21.330	na	1.000
98	WPF-VD-3	21.120	21.120	21.120	na	1.000
101	WPF-UD-IN	12.735	19.920	5.550	10.161	2.000
102	WPF-UD-OUT	11.175	19.800	2.550	12.198	2.000
103	SLD Check 18	4.955	4.955	4.955	na	1.000
104	SLD Check 16	4.855	4.855	4.855	na	1.000
105	SLD Check 15	5.415	5.415	5.415	na	1.000
106	SLD Check 14	7.520	7.520	7.520	na	1.000
107	SLD Check 13	9.390	9.390	9.390	na	1.000
108	SLD Check 12	9.660	9.660	9.660	na	1.000
109	SLD Check 11	10.320	10.320	10.320	na	1.000
110	SLD Check 10	11.340	11.340	11.340	na	1.000
111	SLD Check 9	12.750	12.750	12.750	na	1.000
112	SLD Check 8	13.770	13.770	13.770	na	1.000
113	SLD Check 7	11.670	11.670	11.670	na	1.000
114	SLD Check 6	13.980	13.980	13.980	na	1.000
115	SLD Check 5	14.340	14.340	14.340	na	1.000
116	SLD Check 4	19.410	19.410	19.410	na	1.000
117	SLD Check 3	18.870	18.870	18.870	na	1.000
118	SLD Check 2	20.460	20.460	20.460	na	1.000
119	SLD Check 1	22.650	22.650	22.650	na	1.000
120	South Marsh 1 Intermediary	2.104	4.905	0.950	1.222	10.000
121	South Marsh 1 East	5.543	14.730	1.080	4.445	9.000
122	South Marsh 1 West	7.925	18.300	2.780	4.916	9.000
123	Ramona Lake NW Quad	41.000	51.000	31.000	14.142	2.000
124	Ramona Lake NE Quad	13.355	14.305	12.405	1.344	2.000
125	Ramona Lake SW Quad	26.500	26.500	26.500	na	1.000
126	Ramona Lake SE Quad	34.000	34.000	34.000	na	1.000
129	Hollow Tree drain	7.260	8.850	5.130	1.918	3.000
130	Marshall Rd Reservoir Entrance	4.037	4.545	3.140	0.652	5.000
131	Marshall Rd Reservoir Exit	7.175	19.440	2.930	6.955	5.000
132	Marshall Rd Res Pond 1W	5.052	6.370	4.355	1.142	3.000
133	Marshall Rd Res Pond 2E	4.633	5.540	4.110	0.788	3.000
135	Modesto ID Main Drain Spill	4.210	6.220	2.870	1.367	5.000

Carbonaceous Biochemical Oxygen Demand (CBOD, 10 day)

DO site number	Site name	Average of CBOD10	Max of CBOD10	Min of CBOD10	StdDev of CBOD10	Count of CBOD10
1	SJR at Channel Point	2.918	3.545	2.290	0.887	2.000
2	SJR at Dos Reis Lathrop	4.643	5.105	4.180	0.654	2.000
3	SJR at Old River	4.420	4.540	4.300	0.170	2.000
4	SJR at Mossdale	2.245	7.210	0.310	1.782	60.000
5	SJR at Vernalis	2.466	14.340	0.300	2.233	64.000
6	SJR at Maze	2.361	6.365	0.510	1.573	62.000
7	SJR at Patterson	3.429	8.485	0.810	2.029	65.000
8	SJR at Crows Landing	2.581	6.755	0.910	1.374	70.000
9	SJR at Fremont Ford	4.015	6.640	2.285	1.784	5.000
10	SJR at Lander Avenue	6.142	18.060	0.980	4.394	73.000
11	French Camp Slough	1.350	2.740	0.000	1.096	7.000
12	Stanislaus River at Caswell Park	0.728	1.840	0.000	0.402	61.000
13	Stanislaus River at Ripon	0.190	0.190	0.190	na	1.000
14	Tuolumne River at Shiloh Bridge	0.847	2.965	0.020	0.656	63.000
16	Merced River at River Road	1.027	3.415	0.090	0.707	62.000
17	Merced River near Stevinson	0.140	0.140	0.140	na	1.000
18	Mud Slough near Gustine	6.439	14.460	1.440	3.471	69.000
19	Salt Slough at Lander Avenue	2.020	5.360	0.660	0.821	90.000
20	Los Banos Creek at Highway 140	7.046	25.300	1.075	4.882	64.000
21	Orestimba Creek at River Road	1.726	8.515	0.314	1.229	53.000
22	Modesto ID Lateral 4 to SJR	1.810	3.430	1.010	0.850	6.000
23	Modesto ID Lateral 5 to Tuolumne	1.297	4.600	0.125	0.962	29.000
24	Modesto ID Lateral 6 to Stanislaus River	1.010	1.010	1.010	na	1.000
25	MID Main Drain to Stan. R. via Miller Lake	4.005	17.040	1.510	3.016	37.000
26	Turlock ID Highline Spill	0.170	0.170	0.170	na	1.000
27	Turlock ID Lateral 2 to SJR	1.033	1.040	1.030	0.006	3.000
28	Turlock ID Westport Drain Flow Station	1.495	9.030	0.000	1.378	44.000
29	Turlock ID Harding Drain	2.716	7.895	0.000	1.321	58.000
30	Turlock ID Lateral 6 & 7 at Levee	1.922	7.920	0.000	1.749	30.000
31	BCID - New Jerusalem Drain	0.329	0.780	0.000	0.303	8.000
32	Ei Solyo WD - Grayson Drain	6.564	7.645	4.420	1.491	4.000
33	Hospital Creek	7.796	22.770	0.590	7.489	16.000
34	Ingram Creek Flow Station	3.566	8.640	0.440	2.319	38.000
35	Westley Wasteway Flow Station	3.753	10.620	0.850	3.693	6.000
36	Del Puerto Creek Flow Station	3.168	23.340	0.350	3.536	50.000
38	Marshall Road Drain	6.897	11.700	1.700	4.059	6.000
39	Salado Creek Flow Station	14.343	27.000	2.960	12.070	3.000
43	Ei Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	10.454	23.730	0.360	5.561	67.000
45	Volta Wasteway at Ingomar Grade	1.434	4.440	0.360	1.238	10.000
46	Mud Slough at Gun Club Road	5.047	13.110	2.090	3.767	10.000
47	Delta-Mendota Cal Hwy 140	0.478	0.615	0.300	0.162	3.000
48	FC-5 Grasslands Area Farmers	13.560	13.560	13.560	na	1.000
49	PE-14-Grasslands Area Farmers	5.425	5.425	5.425	na	1.000
50	San Luis Drain Site A (Check 18)	4.158	5.045	3.270	1.255	2.000
51	Arroyo Cal at Hwy 152	3.855	3.855	3.855	na	1.000
52	Salt Slough at Sand Dam	2.625	3.920	1.330	1.831	2.000
53	Salt Slough at Wolfsen Road	2.269	5.380	0.330	0.981	26.000
57	Ramona Lake Drain at Levee	11.934	23.430	1.660	5.536	25.000
59	SJR Laird Park	2.734	5.325	1.210	1.281	22.000
60	Moffit 1 South	3.606	11.700	0.670	2.891	17.000
61	Deadman's Slough	3.933	17.150	0.840	4.437	21.000
62	Mallard Slough	2.668	11.550	0.420	2.598	20.000
63	Inlet C Canal	1.273	3.095	0.470	0.648	24.000

DO site number	Site name	Average of CBOD10	Max of CBOD10	Min of CBOD10	StdDev of CBOD10	Count of CBOD10
64	Moran Drain	3.951	7.130	0.930	3.234	4.000
65	Spanish Grant Drain	4.561	7.130	1.230	2.780	5.000
66	ESWD Maze Blv. Drain	2.242	4.435	1.140	1.899	3.000
67	Newman Wasteway at Brazo Road	2.889	5.560	1.450	1.403	6.000
68	S. Lake Basin	6.464	16.140	0.740	6.274	5.000
69	Santa Fe Canal	1.880	1.880	1.880	na	1.000
80	South Marsh 1 Inlet	1.550	4.835	0.595	1.128	16.000
81	South Marsh 1 Outlet	4.353	23.460	0.250	5.534	18.000
82	South Marsh 3 Inlet	5.227	14.550	1.290	3.578	21.000
83	South Marsh 3 Outlet	6.748	25.560	1.440	6.372	25.000
84	SJR Garwood Bridge	5.150	5.150	5.150	na	1.000
86	Ramona Drain Apple Ave	9.537	16.080	2.130	4.413	9.000
87	Ramona Drain Prune Ave	4.712	6.145	2.050	2.307	3.000
88	Ramona Drain Apricot Ave	9.072	18.520	2.630	5.785	9.000
89	Ramona Drain Pomelo Ave	7.007	9.420	5.640	2.096	3.000
90	Ramona Drain Almond Ave	4.550	4.550	4.550	na	1.000
91	Paradise Drain Prune Ave	10.320	10.320	10.320	na	1.000
92	Paradise Drain Apricot Ave	7.046	12.270	4.240	2.557	7.000
93	Paradise Drain Pomelo Ave	5.728	7.530	3.488	2.056	3.000
94	Paradise Drain Almond Ave	4.956	7.260	3.310	1.621	7.000
95	Ramona Lake Entrance	8.165	15.210	4.395	3.425	13.000
96	WPF-VD-1	12.960	12.960	12.960	na	1.000
97	WPF-VD-2	16.710	16.710	16.710	na	1.000
98	WPF-VD-3	23.910	23.910	23.910	na	1.000
101	WPF-UD-IN	6.985	12.630	1.340	7.983	2.000
102	WPF-UD-OUT	9.915	12.810	7.020	4.094	2.000
103	SLD Check 18	3.870	3.870	3.870	na	1.000
104	SLD Check 16	3.775	3.775	3.775	na	1.000
105	SLD Check 15	4.450	4.450	4.450	na	1.000
106	SLD Check 14	5.990	5.990	5.990	na	1.000
107	SLD Check 13	7.355	7.355	7.355	na	1.000
108	SLD Check 12	8.030	8.030	8.030	na	1.000
109	SLD Check 11	8.340	8.340	8.340	na	1.000
110	SLD Check 10	8.370	8.370	8.370	na	1.000
111	SLD Check 9	11.100	11.100	11.100	na	1.000
112	SLD Check 8	11.100	11.100	11.100	na	1.000
113	SLD Check 7	10.080	10.080	10.080	na	1.000
114	SLD Check 6	10.770	10.770	10.770	na	1.000
115	SLD Check 5	11.310	11.310	11.310	na	1.000
116	SLD Check 4	17.550	17.550	17.550	na	1.000
117	SLD Check 3	16.500	16.500	16.500	na	1.000
118	SLD Check 2	18.600	18.600	18.600	na	1.000
119	SLD Check 1	21.330	21.330	21.330	na	1.000
120	South Marsh 1 Intermediary	1.164	2.590	0.450	0.691	10.000
121	South Marsh 1 East	4.364	11.295	1.060	3.845	9.000
122	South Marsh 1 West	6.256	12.490	2.320	3.687	9.000
123	Ramona Lake NW Quad	36.100	45.100	27.100	12.728	2.000
124	Ramona Lake NE Quad	8.445	9.090	7.800	0.912	2.000
125	Ramona Lake SW Quad	20.500	20.500	20.500	na	1.000
126	Ramona Lake SE Quad	21.200	21.200	21.200	na	1.000
129	Hollow Tree drain	4.897	5.675	4.305	0.704	3.000
130	Marshall Rd Reservoir Entrance	2.233	3.075	1.840	0.490	5.000
131	Marshall Rd Reservoir Exit	4.306	11.130	1.320	3.912	5.000
132	Marshall Rd Res Pond 1W	2.738	3.515	1.860	0.832	3.000
133	Marshall Rd Res Pond 2E	2.527	2.955	1.770	0.657	3.000
135	Modesto ID Main Drain Spill	2.216	3.870	1.200	1.179	5.000

Nitrogenous Biochemical Oxygen Demand (NBOD, 10 day)

DO site number	Site name	Average of NBOD10	Max of NBOD10	Min of NBOD10	StdDev of NBOD10	Count of NBOD10
1	SJR at Channel Point	2.073	2.305	1.840	0.329	2.000
2	SJR at Dos Reis Lathrop	1.640	1.825	1.455	0.262	2.000
3	SJR at Old River	1.530	1.810	1.250	0.396	2.000
4	SJR at Mossdale	1.400	5.905	0.000	1.452	59.000
5	SJR at Vernalis	1.122	4.855	0.000	0.894	64.000
6	SJR at Maze	1.296	5.115	0.000	1.143	62.000
7	SJR at Patterson	1.475	5.850	0.160	1.160	65.000
8	SJR at Crows Landing	1.296	4.825	0.180	0.980	70.000
9	SJR at Fremont Ford	2.859	5.720	1.410	1.675	5.000
10	SJR at Lander Avenue	2.032	7.460	0.150	1.652	71.000
11	French Camp Slough	1.018	2.470	0.075	0.959	6.000
12	Stanislaus River at Caswell Park	0.400	2.140	0.000	0.411	60.000
13	Stanislaus River at Ripon	0.510	0.510	0.510	na	1.000
14	Tuolumne River at Shiloh Bridge	0.446	1.927	-0.005	0.424	62.000
16	Merced River at River Road	0.483	4.310	0.000	0.653	62.000
17	Merced River near Stevinson	0.540	0.540	0.540	na	1.000
18	Mud Slough near Gustine	2.073	5.790	0.360	1.128	69.000
19	Salt Slough at Lander Avenue	1.408	3.350	0.000	0.697	89.000
20	Los Banos Creek at Highway 140	3.432	13.600	0.835	2.562	64.000
21	Orestimba Creek at River Road	1.135	4.980	0.000	1.019	52.000
22	Modesto ID Lateral 4 to SJR	0.587	1.080	0.170	0.394	6.000
23	Modesto ID Lateral 5 to Tuolumne	0.875	5.630	0.070	1.316	29.000
24	Modesto ID Lateral 6 to Stanislaus River	4.605	4.605	4.605	na	1.000
25	MID Main Drain to Stan. R. via Miller Lake	2.470	13.795	0.660	2.154	37.000
26	Turlock ID Highline Spill	0.640	0.640	0.640	na	1.000
27	Turlock ID Lateral 2 to SJR	0.363	0.450	0.240	0.110	3.000
28	Turlock ID Westport Drain Flow Station	0.688	4.320	0.000	0.748	41.000
29	Turlock ID Harding Drain	1.882	8.125	0.290	1.546	57.000
30	Turlock ID Lateral 6 & 7 at Levee	0.965	3.090	0.090	0.691	29.000
31	BCID - New Jerusalem Drain	0.184	0.590	0.000	0.253	8.000
32	EI Solvo WD - Grayson Drain	3.992	5.590	2.315	1.639	3.000
33	Hospital Creek	1.962	6.390	0.000	1.962	16.000
34	Ingram Creek Flow Station	4.215	17.150	0.000	4.059	37.000
35	Westley Wasteway Flow Station	2.733	6.210	0.000	2.513	6.000
36	Del Puerto Creek Flow Station	3.019	14.675	0.000	3.449	50.000
38	Marshall Road Drain	2.928	7.710	0.810	2.638	6.000
39	Salado Creek Flow Station	4.345	8.600	1.975	3.693	3.000
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	1.853	15.175	0.000	2.025	66.000
45	Volta Wasteway at Ingomar Grade	0.604	1.300	0.230	0.301	10.000
46	Mud Slough at Gun Club Road	2.609	6.505	0.000	1.802	10.000
47	Delta-Mendota Cal Hwy 140	0.770	0.995	0.625	0.198	3.000
48	FC-5 Grasslands Area Farmers	4.860	4.860	4.860	na	1.000
49	PE-14-Grasslands Area Farmers	1.125	1.125	1.125	na	1.000
50	San Luis Drain Site A (Check 18)	1.085	1.235	0.935	0.212	2.000
51	Arroyo Cal at Hwy 152	3.685	3.685	3.685	na	1.000
52	Salt Slough at Sand Dam	3.288	4.320	2.255	1.460	2.000
53	Salt Slough at Wolfsen Road	1.760	4.980	0.080	1.029	26.000
57	Ramona Lake Drain at Levee	4.823	11.730	0.420	2.798	24.000
59	SJR Laird Park	1.126	2.470	0.350	0.562	22.000
60	Moffit 1 South	0.675	2.700	0.000	0.718	17.000
61	Deadman's Slough	1.398	4.195	0.000	1.007	21.000
62	Mallard Slough	0.910	2.430	0.000	0.866	20.000
63	Inlet C Canal	1.110	3.925	0.000	0.986	22.000

DO site number	Site name	Average of NBOD10	Max of NBOD10	Min of NBOD10	StdDev of NBOD10	Count of NBOD10
64	Moran Drain	1.163	2.380	0.495	0.863	4.000
65	Spanish Grant Drain	2.761	4.870	0.430	1.873	5.000
66	ESWD Maze Blv. Drain	0.800	1.680	0.350	0.762	3.000
67	Newman Wasteway at Brazo Road	1.893	5.960	0.900	2.005	6.000
68	S. Lake Basin	2.120	3.210	0.700	1.014	5.000
69	Santa Fe Canal	0.690	0.690	0.690	na	1.000
80	South Marsh 1 Inlet	0.721	1.930	0.090	0.552	15.000
81	South Marsh 1 Outlet	1.367	12.140	0.000	2.908	16.000
82	South Marsh 3 Inlet	1.562	5.850	0.000	1.410	21.000
83	South Marsh 3 Outlet	0.873	3.000	0.000	0.880	25.000
84	SJR Garwood Bridge	1.270	1.270	1.270	na	1.000
86	Ramona Drain Apple Ave	6.484	27.190	1.560	8.575	8.000
87	Ramona Drain Prune Ave	3.043	7.595	0.000	4.016	3.000
88	Ramona Drain Apricot Ave	6.113	17.905	1.354	5.621	9.000
89	Ramona Drain Pomelo Ave	5.983	12.030	0.000	6.015	3.000
90	Ramona Drain Almond Ave	0.055	0.055	0.055	na	1.000
91	Paradise Drain Prune Ave	3.030	3.030	3.030	na	1.000
92	Paradise Drain Apricot Ave	1.906	3.055	0.485	1.042	7.000
93	Paradise Drain Pomelo Ave	2.484	5.940	0.628	2.996	3.000
94	Paradise Drain Almond Ave	3.540	10.215	1.465	3.088	7.000
95	Ramona Lake Entrance	4.848	8.970	2.710	1.862	13.000
96	WPF-VD-1	9.780	9.780	9.780	na	1.000
97	WPF-VD-2	4.620	4.620	4.620	na	1.000
98	WPF-VD-3	na	na	na	na	na
101	WPF-UD-IN	5.750	7.290	4.210	2.178	2.000
102	WPF-UD-OUT	6.990	6.990	6.990	na	1.000
103	SLD Check 18	1.085	1.085	1.085	na	1.000
104	SLD Check 16	1.080	1.080	1.080	na	1.000
105	SLD Check 15	0.965	0.965	0.965	na	1.000
106	SLD Check 14	1.530	1.530	1.530	na	1.000
107	SLD Check 13	2.035	2.035	2.035	na	1.000
108	SLD Check 12	1.630	1.630	1.630	na	1.000
109	SLD Check 11	1.980	1.980	1.980	na	1.000
110	SLD Check 10	2.970	2.970	2.970	na	1.000
111	SLD Check 9	1.650	1.650	1.650	na	1.000
112	SLD Check 8	2.670	2.670	2.670	na	1.000
113	SLD Check 7	1.590	1.590	1.590	na	1.000
114	SLD Check 6	3.210	3.210	3.210	na	1.000
115	SLD Check 5	3.030	3.030	3.030	na	1.000
116	SLD Check 4	1.860	1.860	1.860	na	1.000
117	SLD Check 3	2.370	2.370	2.370	na	1.000
118	SLD Check 2	1.860	1.860	1.860	na	1.000
119	SLD Check 1	1.320	1.320	1.320	na	1.000
120	South Marsh 1 Intermediary	0.892	2.315	0.250	0.636	9.000
121	South Marsh 1 East	1.527	5.520	0.020	1.751	8.000
122	South Marsh 1 West	1.718	5.810	0.000	1.771	9.000
123	Ramona Lake NW Quad	4.900	5.900	3.900	1.414	2.000
124	Ramona Lake NE Quad	4.910	5.215	4.605	0.431	2.000
125	Ramona Lake SW Quad	6.000	6.000	6.000	na	1.000
126	Ramona Lake SE Quad	12.800	12.800	12.800	na	1.000
129	Hollow Tree drain	2.363	3.175	0.825	1.333	3.000
130	Marshall Rd Reservoir Entrance	1.804	2.465	1.300	0.549	5.000
131	Marshall Rd Reservoir Exit	2.869	8.310	0.415	3.135	5.000
132	Marshall Rd Res Pond 1W	2.313	2.855	1.590	0.652	3.000
133	Marshall Rd Res Pond 2E	2.107	2.585	1.395	0.628	3.000
135	Modesto ID Main Drain Spill	1.994	2.440	1.590	0.394	5.000

Total Organic Carbon (mg/L)

DO site number	Site name	Average of Total Organic Carbon, mg/L	Max of Total Organic Carbon, mg/L	Min of Total Organic Carbon, mg/L	StdDev of Total Organic Carbon, mg/L	Count of Total Organic Carbon, mg/L
1	SJR at Channel Point	3.86	3.94	3.78	0.11	2
2	SJR at Dos Reis Lathrop	4.48	4.71	4.26	0.32	2
3	SJR at Old River	4.61	4.73	4.49	0.18	2
4	SJR at Mossdale	4.23	11.93	0.36	1.68	63
5	SJR at Vernalis	4.56	17.85	1.84	2.21	71
6	SJR at Maze	4.64	11.62	2.14	1.55	69
7	SJR at Patterson	6.06	13.43	2.35	1.92	73
8	SJR at Crows Landing	5.80	12.98	2.75	1.96	79
9	SJR at Fremont Ford	8.37	10.31	7.61	1.10	5
10	SJR at Lander Avenue	7.69	16.13	3.21	2.40	81
11	French Camp Slough	5.33	13.95	2.34	3.90	7
12	Stanislaus River at Caswell Park	2.50	8.53	0.96	0.97	65
13	Stanislaus River at Ripon	1.84	1.84	1.84	na	1
14	Tuolumne River at Shiloh Bridge	2.84	9.18	0.96	1.35	65
16	Merced River at River Road	2.83	14.27	1.07	1.59	67
17	Merced River near Stevenson	1.43	1.43	1.43	na	1
18	Mud Slough near Gustine	11.05	16.31	4.60	2.63	77
19	Salt Slough at Lander Avenue	7.69	20.10	4.10	2.04	101
20	Los Banos Creek at Highway 140	13.97	32.62	6.78	5.18	65
21	Orestimba Creek at River Road	5.62	14.31	2.49	2.25	58
22	Modesto ID Lateral 4 to SJR	2.74	2.96	2.58	0.16	5
23	Modesto ID Lateral 5 to Tuolumne	4.16	18.51	1.87	3.93	27
24	Modesto ID Lateral 6 to Stanislaus River	3.44	3.71	3.17	0.38	2
25	MID Main Drain to Stan. R. via Miller Lake	8.38	40.91	3.76	6.00	38
26	Turlock ID Highline Spill	1.88	2.22	1.55	0.48	2
27	Turlock ID Lateral 2 to SJR	1.89	2.28	1.55	0.36	4
28	Turlock ID Westport Drain Flow Station	4.15	14.79	2.33	2.30	49
29	Turlock ID Harding Drain	5.81	13.45	2.50	1.81	63
30	Turlock ID Lateral 6 & 7 at Levee	6.31	13.71	3.87	2.35	34
31	BCID - New Jerusalem Drain	2.57	6.34	1.67	1.56	8
32	El Solyo WD - Grayson Drain	17.34	22.69	13.31	4.03	5
33	Hospital Creek	12.47	52.52	3.30	11.75	16
34	Ingram Creek Flow Station	8.75	34.55	1.96	6.38	43
35	Westley Wasteway Flow Station	10.56	33.58	3.90	11.51	6
36	Del Puerto Creek Flow Station	6.56	43.62	2.00	5.79	56
38	Marshall Road Drain	7.75	12.95	3.67	3.08	7
39	Salado Creek Flow Station	14.94	25.35	8.67	7.37	4
43	El Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	10.64	23.22	4.54	3.66	71
45	Volta Wasteway at Ingomar Grade	4.09	5.42	2.72	0.76	11
46	Mud Slough at Gun Club Road	14.07	25.51	8.97	4.99	11
47	Delta-Mendota Cal Hwy 140	3.71	5.58	2.18	1.72	3
48	FC-5 Grasslands Area Farmers	12.18	16.76	7.60	6.47	2
49	PE-14-Grasslands Area Farmers	9.49	10.00	8.98	0.72	2
50	San Luis Drain Site A (Check 18)	7.89	8.96	6.10	1.28	4
51	Arroyo Cal at Hwy 152	7.28	7.76	6.80	0.68	2
52	Salt Slough at Sand Dam	6.64	7.84	4.96	1.50	3
53	Salt Slough at Wolfsen Road	7.77	11.51	5.59	1.29	29
57	Ramona Lake Drain at Levee	11.38	18.68	4.98	2.73	30
59	SJR Laird Park	4.82	6.69	3.02	1.15	20
60	Moffit 1 South	11.30	16.24	4.24	2.90	18
61	Deadman's Slough	11.15	24.17	6.46	5.12	23
62	Mallard Slough	11.65	38.83	6.58	7.00	22
63	Inlet C Canal	4.94	8.55	2.43	1.39	26

DO site number	Site name	Average of Total Organic Carbon, mg/L	Max of Total Organic Carbon, mg/L	Min of Total Organic Carbon, mg/L	StdDev of Total Organic Carbon, mg/L	Count of Total Organic Carbon, mg/L
64	Moran Drain	5.73	9.67	3.38	2.53	6
65	Spanish Grant Drain	7.92	13.16	4.64	3.02	6
66	ESWD Maze Blv. Drain	10.46	21.73	3.26	9.88	3
67	Newman Wasteway at Brazo Road	6.43	10.49	4.58	2.08	6
68	S. Lake Basin	13.40	25.00	4.45	9.53	5
69	Santa Fe Canal	3.92	3.92	3.92	na	1
80	South Marsh 1 Inlet	4.52	6.73	2.00	1.47	17
81	South Marsh 1 Outlet	9.67	21.81	4.18	5.37	19
82	South Marsh 3 Inlet	10.91	30.75	2.49	6.88	24
83	South Marsh 3 Outlet	11.76	24.30	3.30	5.52	27
84	SJR Garwood Bridge	3.95	3.95	3.95	na	1
86	Ramona Drain Apple Ave	14.20	24.29	9.13	4.68	9
87	Ramona Drain Prune Ave	11.58	13.16	9.27	2.04	3
88	Ramona Drain Apricot Ave	14.15	23.06	6.30	5.55	9
89	Ramona Drain Pomelo Ave	12.52	14.03	11.42	1.35	3
90	Ramona Drain Almond Ave	10.44	10.44	10.44	na	1
91	Paradise Drain Prune Ave	15.36	15.36	15.36	na	1
92	Paradise Drain Apricot Ave	11.15	16.01	6.11	2.91	7
93	Paradise Drain Pomelo Ave	11.66	14.07	7.69	3.46	3
94	Paradise Drain Almond Ave	9.81	12.58	7.70	1.84	7
95	Ramona Lake Entrance	9.38	15.41	6.16	2.87	17
96	WPF-VD-1	20.58	20.58	20.58	na	1
97	WPF-VD-2	23.16	23.16	23.16	na	1
98	WPF-VD-3	79.30	79.30	79.30	na	1
101	WPF-UD-IN	13.61	21.01	6.21	10.46	2
102	WPF-UD-OUT	15.62	20.00	11.23	6.20	2
103	SLD Check 18	9.88	10.44	9.32	0.79	2
104	SLD Check 16	8.64	9.29	7.99	0.92	2
105	SLD Check 15	9.45	9.68	9.22	0.33	2
106	SLD Check 14	10.13	10.60	9.66	0.67	2
107	SLD Check 13	10.68	10.82	10.53	0.21	2
108	SLD Check 12	10.21	10.83	9.59	0.87	2
109	SLD Check 11	10.50	12.35	8.66	2.61	2
110	SLD Check 10	9.86	11.52	8.20	2.35	2
111	SLD Check 9	10.46	11.09	9.83	0.89	2
112	SLD Check 8	11.34	12.27	10.42	1.31	2
113	SLD Check 7	12.45	14.22	10.67	2.51	2
114	SLD Check 6	12.05	13.46	10.65	1.99	2
115	SLD Check 5	11.96	12.76	11.16	1.13	2
116	SLD Check 4	12.84	14.35	11.33	2.13	2
117	SLD Check 3	13.77	16.34	11.19	3.64	2
118	SLD Check 2	13.54	16.12	10.97	3.64	2
119	SLD Check 1	13.85	17.19	10.51	4.73	2
120	South Marsh 1 Intermediary	4.91	9.91	2.63	1.89	11
121	South Marsh 1 East	7.63	19.07	2.84	5.45	10
122	South Marsh 1 West	16.72	26.55	9.21	5.77	9
123	Ramona Lake NW Quad	15.11	20.91	9.30	8.21	2
124	Ramona Lake NE Quad	11.94	20.52	7.61	7.43	3
125	Ramona Lake SW Quad	9.93	9.93	9.93	na	1
126	Ramona Lake SE Quad	8.50	8.50	8.50	na	1
129	Hollow Tree drain	18.10	21.15	16.09	2.68	3
130	Marshall Rd Reservoir Entrance	6.75	10.50	3.35	2.84	7
131	Marshall Rd Reservoir Exit	5.66	7.14	4.35	1.06	7
132	Marshall Rd Res Pond 1W	5.10	6.52	4.08	1.09	5
133	Marshall Rd Res Pond 2E	5.30	6.80	4.17	1.06	5
135	Modesto ID Main Drain Spill	6.35	11.47	3.14	3.54	6

Dissolved Organic Carbon, mg/L

DO site number	Site name	Average of Dissolved Organic Carbon, mg/L	Max of Dissolved Organic Carbon, mg/L	Min of Dissolved Organic Carbon, mg/L	StdDev of Dissolved Organic Carbon, mg/L	Count of Dissolved Organic Carbon, mg/L
1	SJR at Channel Point	2.92	3.49	2.35	0.81	2
2	SJR at Dos Reis Lathrop	2.69	3.48	1.91	1.11	2
3	SJR at Old River	2.57	3.31	1.83	1.05	2
4	SJR at Mossdale	3.23	6.97	0.88	1.04	65
5	SJR at Vernalis	3.40	8.10	1.83	1.21	72
6	SJR at Maze	3.81	10.12	1.75	1.51	70
7	SJR at Patterson	4.73	10.16	2.26	1.44	74
8	SJR at Crows Landing	4.64	8.06	2.02	1.36	80
9	SJR at Fremont Ford	5.88	7.54	4.50	1.11	5
10	SJR at Lander Avenue	5.81	10.77	2.90	1.70	83
11	French Camp Slough	4.80	10.41	2.42	2.98	7
12	Stanislaus River at Caswell Park	2.26	5.25	0.71	0.77	67
13	Stanislaus River at Ripon	1.42	1.42	1.42	na	1
14	Tuolumne River at Shiloh Bridge	2.52	5.95	0.97	1.04	68
16	Merced River at River Road	2.48	7.36	1.00	0.92	67
17	Merced River near Stevenson	1.32	1.32	1.32	na	1
18	Mud Slough near Gustine	8.87	18.81	3.50	3.05	77
19	Salt Slough at Lander Avenue	6.04	9.14	4.14	1.14	102
20	Los Banos Creek at Highway 140	12.85	36.28	4.83	5.81	66
21	Orestimba Creek at River Road	4.10	14.02	2.26	1.92	58
22	Modesto ID Lateral 4 to SJR	2.59	3.78	1.92	0.68	6
23	Modesto ID Lateral 5 to Tuolumne	3.03	11.32	1.48	2.08	29
24	Modesto ID Lateral 6 to Stanislaus River	3.66	4.44	2.88	1.11	2
25	MID Main Drain to Stan. R. via Miller Lake	7.49	24.25	3.21	4.54	39
26	Turlock ID Highline Spill	1.47	1.65	1.29	0.25	2
27	Turlock ID Lateral 2 to SJR	2.11	3.16	1.18	0.91	4
28	Turlock ID Westport Drain Flow Station	4.12	11.35	1.66	2.13	50
29	Turlock ID Harding Drain	5.31	10.00	2.22	1.66	65
30	Turlock ID Lateral 6 & 7 at Levee	6.21	14.70	3.56	2.71	35
31	BCID - New Jerusalem Drain	5.48	13.81	1.52	4.12	9
32	EI Solyo WD - Grayson Drain	7.30	14.99	3.13	4.57	5
33	Hospital Creek	6.60	16.65	2.61	3.88	17
34	Ingram Creek Flow Station	4.33	11.17	1.77	1.62	44
35	Westley Wasteway Flow Station	3.57	5.31	1.81	1.23	7
36	Del Puerto Creek Flow Station	4.83	19.13	2.21	2.63	58
38	Marshall Road Drain	10.02	37.63	2.84	11.46	8
39	Salado Creek Flow Station	12.90	24.82	6.70	8.16	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	6.64	11.19	3.71	1.45	73
45	Volta Wasteway at Ingomar Grade	3.57	4.21	2.38	0.54	11
46	Mud Slough at Gun Club Road	12.82	26.97	6.15	5.86	11
47	Delta-Mendota Cal Hwy 140	3.02	3.58	2.72	0.48	3
48	FC-5 Grasslands Area Farmers	8.85	10.79	6.90	2.75	2
49	PE-14-Grasslands Area Farmers	7.88	9.00	6.76	1.58	2
50	San Luis Drain Site A (Check 18)	6.45	7.28	5.50	0.73	4
51	Arroyo Cal at Hwy 152	6.13	6.49	5.77	0.51	2
52	Salt Slough at Sand Dam	4.67	5.37	4.20	0.62	3
53	Salt Slough at Wolfsen Road	6.37	8.78	4.56	1.09	29
57	Ramona Lake Drain at Levee	7.41	10.75	3.57	1.59	30
59	SJR Laird Park	3.91	6.77	2.55	1.04	22
60	Moffit 1 South	11.35	14.82	5.61	2.49	18
61	Deadman's Slough	10.27	22.01	5.26	4.37	23
62	Mallard Slough	10.90	34.48	6.40	6.02	22
63	Inlet C Canal	3.76	6.70	1.84	1.31	26

DO site number	Site name	Average of Dissolved Organic Carbon, mg/L	Max of Dissolved Organic Carbon, mg/L	Min of Dissolved Organic Carbon, mg/L	StdDev of Dissolved Organic Carbon, mg/L	Count of Dissolved Organic Carbon, mg/L
64	Moran Drain	4.00	6.57	1.51	1.98	6
65	Spanish Grant Drain	5.32	7.94	2.96	1.85	7
66	ESWD Maze Blv. Drain	3.98	6.20	1.77	1.91	4
67	Newman Wasteway at Brazo Road	13.37	37.71	2.89	15.53	7
68	S. Lake Basin	12.89	21.15	3.37	8.14	5
69	Santa Fe Canal	2.88	2.88	2.88	na	1
80	South Marsh 1 Inlet	4.02	7.68	2.14	1.54	17
81	South Marsh 1 Outlet	8.87	17.61	2.62	4.27	19
82	South Marsh 3 Inlet	8.56	17.27	0.42	4.15	24
83	South Marsh 3 Outlet	10.36	26.71	0.42	5.23	27
84	SJR Garwood Bridge	3.48	3.48	3.48	na	1
86	Ramona Drain Apple Ave	11.88	18.37	6.18	3.97	9
87	Ramona Drain Prune Ave	10.32	11.52	8.47	1.62	3
88	Ramona Drain Apricot Ave	9.64	13.81	5.60	2.25	9
89	Ramona Drain Pomelo Ave	8.84	9.33	7.94	0.79	3
90	Ramona Drain Almond Ave	7.28	7.28	7.28	na	1
91	Paradise Drain Prune Ave	13.87	13.87	13.87	na	1
92	Paradise Drain Apricot Ave	8.50	12.31	5.64	2.41	7
93	Paradise Drain Pomelo Ave	7.56	9.09	6.27	1.42	3
94	Paradise Drain Almond Ave	6.89	7.98	6.25	0.61	7
95	Ramona Lake Entrance	7.12	9.97	5.01	1.30	17
96	WPF-VD-1	13.72	13.72	13.72	na	1
97	WPF-VD-2	16.32	16.32	16.32	na	1
98	WPF-VD-3	58.17	58.17	58.17	na	1
101	WPF-UD-IN	9.61	13.73	5.49	5.82	2
102	WPF-UD-OUT	11.11	13.72	8.50	3.70	2
103	SLD Check 18	7.28	7.65	6.92	0.52	2
104	SLD Check 16	6.91	7.41	6.41	0.71	2
105	SLD Check 15	7.13	7.44	6.82	0.44	2
106	SLD Check 14	7.16	7.50	6.82	0.48	2
107	SLD Check 13	7.10	7.64	6.55	0.77	2
108	SLD Check 12	7.03	7.39	6.68	0.50	2
109	SLD Check 11	7.30	8.85	5.75	2.19	2
110	SLD Check 10	7.06	8.21	5.92	1.62	2
111	SLD Check 9	7.03	8.22	5.84	1.68	2
112	SLD Check 8	6.24	6.87	5.61	0.89	2
113	SLD Check 7	6.63	7.49	5.77	1.22	2
114	SLD Check 6	6.57	7.56	5.58	1.40	2
115	SLD Check 5	7.21	8.29	6.12	1.54	2
116	SLD Check 4	6.86	7.96	5.76	1.56	2
117	SLD Check 3	7.44	8.91	5.97	2.08	2
118	SLD Check 2	7.00	8.12	5.88	1.58	2
119	SLD Check 1	7.50	8.59	6.41	1.54	2
120	South Marsh 1 Intermediary	3.97	6.16	2.26	1.00	11
121	South Marsh 1 East	7.15	19.85	2.67	5.16	10
122	South Marsh 1 West	15.69	24.70	7.54	6.26	9
123	Ramona Lake NW Quad	8.21	8.78	7.65	0.80	2
124	Ramona Lake NE Quad	8.06	10.15	5.98	2.09	3
125	Ramona Lake SW Quad	9.08	9.08	9.08	na	1
126	Ramona Lake SE Quad	8.65	8.65	8.65	na	1
129	Hollow Tree drain	17.82	19.69	15.53	2.11	3
130	Marshall Rd Reservoir Entrance	4.07	5.90	2.85	1.23	7
131	Marshall Rd Reservoir Exit	4.02	5.29	3.10	0.70	7
132	Marshall Rd Res Pond 1W	4.32	5.60	3.15	1.00	5
133	Marshall Rd Res Pond 2E	4.19	5.70	3.18	1.09	5
135	Modesto ID Main Drain Spill	6.39	18.68	2.76	6.17	6

Inorganic Carbon, mg/L

DO site number	Site name	Average of Inorganic Carbon, mg/L C	Max of Inorganic Carbon, mg/L C	Min of Inorganic Carbon, mg/L C	StdDev of Inorganic Carbon, mg/L C	Count of Inorganic Carbon, mg/L C
1	SJR at Channel Point	13.45	13.45	13.45	na	1
2	SJR at Dos Reis Lathrop	14.47	14.47	14.47	na	1
3	SJR at Old River	13.42	13.42	13.42	na	1
4	SJR at Mossdale	21.51	28.75	9.99	5.12	24
5	SJR at Vernalis	22.07	29.97	9.67	5.07	29
6	SJR at Maze	27.39	35.15	14.70	5.72	29
7	SJR at Patterson	30.43	40.63	12.56	6.33	31
8	SJR at Crows Landing	29.97	38.59	11.96	6.10	33
9	SJR at Fremont Ford	34.63	36.60	31.65	2.63	3
10	SJR at Lander Avenue	35.08	59.57	4.02	10.64	33
11	French Camp Slough	12.45	12.45	12.45	na	1
12	Stanislaus River at Caswell Park	10.36	14.58	5.40	2.28	24
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	15.84	20.12	7.57	3.96	24
16	Merced River at River Road	14.53	22.79	2.65	5.29	24
17	Merced River near Stevenson	na	na	na	na	na
18	Mud Slough near Gustine	30.89	64.95	12.77	13.03	31
19	Salt Slough at Lander Avenue	34.55	50.85	22.06	7.25	36
20	Los Banos Creek at Highway 140	61.49	97.63	39.40	17.50	18
21	Orestimba Creek at River Road	34.94	45.79	15.54	6.70	20
22	Modesto ID Lateral 4 to SJR	31.95	31.95	31.95	na	1
23	Modesto ID Lateral 5 to Tuolumne	14.68	14.68	14.68	na	1
24	Modesto ID Lateral 6 to Stanislaus River	5.27	5.27	5.27	na	1
25	MID Main Drain to Stan. R. via Miller Lake	25.40	34.08	18.18	4.23	19
26	Turlock ID Highline Spill	4.76	4.76	4.76	na	1
27	Turlock ID Lateral 2 to SJR	11.18	17.58	6.10	5.86	3
28	Turlock ID Westport Drain Flow Station	36.84	84.58	18.38	17.45	23
29	Turlock ID Harding Drain	30.19	51.65	4.30	9.00	24
30	Turlock ID Lateral 6 & 7 at Levee	29.13	67.94	8.94	10.97	22
31	BCID - New Jerusalem Drain	61.02	72.80	40.69	14.18	4
32	El Solyo WD - Grayson Drain	29.79	42.00	17.68	12.16	3
33	Hospital Creek	25.99	29.61	22.38	5.11	2
34	Ingram Creek Flow Station	32.50	51.75	19.64	7.38	24
35	Westley Wasteway Flow Station	20.78	23.18	18.37	3.40	2
36	Del Puerto Creek Flow Station	33.06	61.66	15.44	8.72	23
38	Marshall Road Drain	29.37	36.93	16.78	10.98	3
39	Salado Creek Flow Station	36.21	41.60	32.22	4.09	4
43	El Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	19.86	52.36	3.54	12.24	23
45	Volta Wasteway at Ingomar Grade	46.80	65.09	28.50	25.88	2
46	Mud Slough at Gun Club Road	96.98	105.55	88.41	12.12	2
47	Delta-Mendota Cal Hwy 140	23.81	44.54	11.74	18.03	3
48	FC-5 Grasslands Area Farmers	na	na	na	na	na
49	PE-14-Grasslands Area Farmers	na	na	na	na	na
50	San Luis Drain Site A (Check 18)	38.84	38.84	38.84	na	1
51	Arroyo Cal at Hwy 152	20.01	22.60	17.41	3.67	2
52	Salt Slough at Sand Dam	26.79	27.78	25.81	1.39	2
53	Salt Slough at Wolfsen Road	36.15	41.53	26.35	5.84	5
54	Los Banos Creek at Ingomar Grade	na	na	na	na	na
57	Ramona Lake Drain at Levee	35.78	47.61	19.96	7.94	15
59	SJR Laird Park	na	na	na	na	na
60	Moffit 1 South	52.22	55.47	48.96	4.61	2
61	Deadman's Slough	47.24	51.19	41.84	3.98	4
62	Mallard Slough	39.94	63.89	27.59	20.75	3
63	Inlet C Canal	29.88	30.47	29.07	0.69	4

DO site number	Site name	Average of Inorganic Carbon, mg/L C	Max of Inorganic Carbon, mg/L C	Min of Inorganic Carbon, mg/L C	StdDev of Inorganic Carbon, mg/L C	Count of Inorganic Carbon, mg/L C
64	Moran Drain	36.40	39.91	34.09	3.09	3
65	Spanish Grant Drain	44.12	47.61	39.82	3.96	3
66	ESWD Maze Blv. Drain	na	na	na	na	na
67	Newman Wasteway at Brazo Road	43.78	66.44	18.77	23.92	3
68	S. Lake Basin	88.89	91.08	86.70	3.09	2
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	28.06	30.87	25.25	3.97	2
81	South Marsh 1 Outlet	32.21	35.40	29.02	4.51	2
82	South Marsh 3 Inlet	43.33	58.64	31.31	12.19	4
83	South Marsh 3 Outlet	43.75	60.86	24.99	12.02	6
84	SJR Garwood Bridge	na	na	na	na	na
86	Ramona Drain Apple Ave	39.32	49.17	34.36	5.29	6
87	Ramona Drain Prune Ave	na	na	na	na	na
88	Ramona Drain Apricot Ave	43.08	52.24	34.64	7.05	6
89	Ramona Drain Pomelo Ave	na	na	na	na	na
90	Ramona Drain Almond Ave	na	na	na	na	na
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	40.24	48.44	35.74	5.77	4
93	Paradise Drain Pomelo Ave	na	na	na	na	na
94	Paradise Drain Almond Ave	39.24	50.47	30.98	7.42	5
95	Ramona Lake Entrance	39.97	51.21	26.83	7.85	15
96	WPF-VD-1	na	na	na	na	na
97	WPF-VD-2	na	na	na	na	na
98	WPF-VD-3	na	na	na	na	na
101	WPF-UD-IN	na	na	na	na	na
102	WPF-UD-OUT	na	na	na	na	na
103	SLD Check 18	38.56	38.56	38.56	na	1
104	SLD Check 16	39.55	39.55	39.55	na	1
105	SLD Check 15	35.73	35.73	35.73	na	1
106	SLD Check 14	29.89	29.89	29.89	na	1
107	SLD Check 13	32.28	32.28	32.28	na	1
108	SLD Check 12	34.47	34.47	34.47	na	1
109	SLD Check 11	26.81	26.81	26.81	na	1
110	SLD Check 10	29.27	29.27	29.27	na	1
111	SLD Check 9	24.76	24.76	24.76	na	1
112	SLD Check 8	25.70	25.70	25.70	na	1
113	SLD Check 7	28.37	28.37	28.37	na	1
114	SLD Check 6	25.91	25.91	25.91	na	1
115	SLD Check 5	18.00	18.00	18.00	na	1
116	SLD Check 4	16.31	16.31	16.31	na	1
117	SLD Check 3	14.38	14.38	14.38	na	1
118	SLD Check 2	12.02	12.02	12.02	na	1
119	SLD Check 1	12.22	12.22	12.22	na	1
120	South Marsh 1 Intermediary	26.98	27.66	26.29	0.97	2
121	South Marsh 1 East	33.94	34.93	32.95	1.40	2
122	South Marsh 1 West	43.53	45.34	41.71	2.57	2
123	Ramona Lake NW Quad	31.09	31.09	31.09	na	1
124	Ramona Lake NE Quad	28.42	28.42	28.42	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	106.88	122.58	91.19	22.19	2
130	Marshall Rd Reservoir Entrance	24.94	35.77	16.63	8.09	7
131	Marshall Rd Reservoir Exit	24.28	34.68	15.54	7.54	7
132	Marshall Rd Res Pond 1W	21.26	25.25	17.58	3.26	4
133	Marshall Rd Res Pond 2E	23.21	27.28	16.72	4.54	4
135	Modesto ID Main Drain Spill	19.75	23.79	12.82	4.39	5

Total Protein, mg/L

DO site number	Site name	Average of Total Protein mg/L	Max of Total Protein mg/L	Min of Total Protein mg/L	StdDev of Total Protein mg/L	Count of Total Protein mg/L
1	SJR at Channel Point	6.39	6.39	6.39	na	1
2	SJR at Dos Reis Lathrop	7.64	7.64	7.64	na	1
3	SJR at Old River	7.07	7.07	7.07	na	1
4	SJR at Mossdale	5.52	9.71	1.76	1.82	37
5	SJR at Vernalis	5.61	11.40	2.08	2.01	40
6	SJR at Maze	6.05	13.82	3.00	2.39	37
7	SJR at Patterson	7.23	13.25	1.58	2.34	41
8	SJR at Crows Landing	7.26	13.56	4.15	2.30	43
9	SJR at Fremont Ford	5.21	5.21	5.21	na	1
10	SJR at Lander Avenue	9.37	19.81	4.19	3.42	46
11	French Camp Slough	10.69	20.99	5.12	8.93	3
12	Stanislaus River at Caswell Park	3.59	10.95	0.88	1.76	39
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	3.92	12.86	1.12	2.12	39
16	Merced River at River Road	4.25	14.12	1.79	2.23	38
17	Merced River near Stevenson	1.12	1.12	1.12	na	1
18	Mud Slough near Gustine	16.39	29.23	9.58	5.10	42
19	Salt Slough at Lander Avenue	9.16	22.77	1.88	3.61	61
20	Los Banos Creek at Highway 140	18.93	45.54	7.55	8.90	43
21	Orestimba Creek at River Road	10.29	36.65	2.19	7.79	35
22	Modesto ID Lateral 4 to SJR	5.80	8.15	4.46	1.39	5
23	Modesto ID Lateral 5 to Tuolumne	5.72	21.00	1.10	5.28	26
24	Modesto ID Lateral 6 to Stanislaus River	2.00	2.00	2.00	na	1
25	MID Main Drain to Stan. R. via Miller Lake	14.78	61.79	5.17	13.92	16
26	Turlock ID Highline Spill	1.15	1.15	1.15	na	1
27	Turlock ID Lateral 2 to SJR	2.36	2.36	2.36	na	1
28	Turlock ID Westport Drain Flow Station	5.00	14.28	0.45	2.66	28
29	Turlock ID Harding Drain	6.40	18.46	3.12	3.18	36
30	Turlock ID Lateral 6 & 7 at Levee	7.20	20.12	1.43	5.80	13
31	BCID - New Jerusalem Drain	3.26	3.65	2.65	0.43	4
32	EI Solvo WD - Grayson Drain	32.71	41.18	24.23	11.99	2
33	Hospital Creek	21.25	56.12	2.08	18.72	13
34	Ingram Creek Flow Station	13.17	55.03	0.45	12.41	21
35	Westley Wasteway Flow Station	10.05	38.18	1.23	15.79	5
36	Del Puerto Creek Flow Station	9.38	21.77	1.61	5.98	32
38	Marshall Road Drain	11.18	21.61	2.23	9.08	4
39	Salado Creek Flow Station	na	na	na	na	na
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	22.76	42.79	3.38	7.71	47
45	Volta Wasteway at Ingomar Grade	3.92	5.37	2.64	1.19	6
46	Mud Slough at Gun Club Road	14.08	16.75	9.84	2.76	6
47	Delta-Mendota Cal Hwy 140	na	na	na	na	na
48	FC-5 Grasslands Area Farmers	26.96	28.15	25.77	1.69	2
49	PE-14-Grasslands Area Farmers	32.38	34.65	30.12	3.21	2
50	San Luis Drain Site A (Check 18)	24.06	31.77	21.29	5.14	4
51	Arroyo Cal at Hwy 152	na	na	na	na	na
52	Salt Slough at Sand Dam	4.96	4.96	4.96	na	1
53	Salt Slough at Wolfsen Road	8.31	13.77	4.17	2.37	20
57	Ramona Lake Drain at Levee	17.46	33.83	8.35	5.40	15
59	SJR Laird Park	9.80	60.23	3.81	12.10	20
60	Moffit 1 South	12.16	29.04	7.20	5.61	15
61	Deadman's Slough	10.98	22.85	5.65	5.23	16
62	Mallard Slough	9.00	17.07	3.38	4.06	17
63	Inlet C Canal	5.24	9.70	1.69	2.24	18

DO site number	Site name	Average of Total Protein mg/L	Max of Total Protein mg/L	Min of Total Protein mg/L	StdDev of Total Protein mg/L	Count of Total Protein mg/L
64	Moran Drain	9.44	16.58	4.85	6.27	3
65	Spanish Grant Drain	7.95	17.22	3.73	6.24	4
66	ESWD Maze Blv. Drain	13.03	40.72	1.69	18.64	4
67	Newman Wasteway at Brazo Road	5.76	12.52	2.77	4.55	4
68	S. Lake Basin	18.65	35.92	7.38	12.30	4
69	Santa Fe Canal	4.65	4.65	4.65	na	1
80	South Marsh 1 Inlet	5.28	8.09	2.31	1.74	11
81	South Marsh 1 Outlet	10.58	21.09	6.26	5.03	12
82	South Marsh 3 Inlet	11.03	24.58	1.77	5.62	15
83	South Marsh 3 Outlet	10.93	19.46	3.32	3.61	17
84	SJR Garwood Bridge	6.10	6.10	6.10	na	1
86	Ramona Drain Apple Ave	21.99	28.90	16.56	6.30	3
87	Ramona Drain Prune Ave	15.90	21.19	11.18	5.03	3
88	Ramona Drain Apricot Ave	17.93	33.09	8.33	13.29	3
89	Ramona Drain Pomelo Ave	26.33	29.78	23.05	3.37	3
90	Ramona Drain Almond Ave	20.54	20.54	20.54	na	1
91	Paradise Drain Prune Ave	20.21	20.21	20.21	na	1
92	Paradise Drain Apricot Ave	16.97	18.67	14.96	1.88	3
93	Paradise Drain Pomelo Ave	25.50	32.38	14.27	9.80	3
94	Paradise Drain Almond Ave	21.01	22.11	19.91	1.56	2
95	Ramona Lake Entrance	13.50	22.01	0.00	7.68	7
96	WPF-VD-1	45.79	45.79	45.79	na	1
97	WPF-VD-2	41.71	41.71	41.71	na	1
98	WPF-VD-3	76.46	76.46	76.46	na	1
101	WPF-UD-IN	23.97	44.33	3.62	28.79	2
102	WPF-UD-OUT	28.84	41.71	15.98	18.19	2
103	SLD Check 18	20.94	21.00	20.87	0.09	2
104	SLD Check 16	19.23	21.34	17.13	2.97	2
105	SLD Check 15	20.46	21.07	19.86	0.86	2
106	SLD Check 14	21.32	22.42	20.21	1.56	2
107	SLD Check 13	24.98	26.75	23.21	2.50	2
108	SLD Check 12	21.10	21.64	20.55	0.77	2
109	SLD Check 11	21.13	23.15	19.11	2.86	2
110	SLD Check 10	19.76	20.14	19.38	0.54	2
111	SLD Check 9	23.23	24.69	21.76	2.08	2
112	SLD Check 8	20.67	23.19	18.14	3.57	2
113	SLD Check 7	20.76	21.37	20.16	0.86	2
114	SLD Check 6	19.91	20.94	18.88	1.45	2
115	SLD Check 5	17.39	18.59	16.18	1.70	2
116	SLD Check 4	18.11	18.40	17.82	0.41	2
117	SLD Check 3	19.28	19.57	18.99	0.41	2
118	SLD Check 2	22.28	23.37	21.18	1.55	2
119	SLD Check 1	21.89	22.02	21.77	0.18	2
120	South Marsh 1 Intermediary	6.77	7.56	5.56	1.06	3
121	South Marsh 1 East	17.36	40.31	5.04	19.89	3
122	South Marsh 1 West	19.00	21.66	15.75	3.00	3
123	Ramona Lake NW Quad	19.68	19.68	19.68	na	1
124	Ramona Lake NE Quad	6.61	6.61	6.61	na	1
125	Ramona Lake SW Quad	15.67	15.67	15.67	na	1
126	Ramona Lake SE Quad	16.24	16.24	16.24	na	1
129	Hollow Tree drain	19.94	25.01	14.86	7.18	2
130	Marshall Rd Reservoir Entrance	na	na	na	na	na
131	Marshall Rd Reservoir Exit	na	na	na	na	na
132	Marshall Rd Res Pond 1W	na	na	na	na	na
133	Marshall Rd Res Pond 2E	na	na	na	na	na
135	Modesto ID Main Drain Spill	na	na	na	na	na

Total Suspended Solids

DO site number	Site name	Average of TSS, mg/L	Max of TSS, mg/L	Min of TSS, mg/L	StdDev of TSS, mg/L	Count of TSS, mg/L
1	SJR at Channel Point	45.81	66.58	25.04	29.38	2
2	SJR at Dos Reis Lathrop	48.22	73.85	22.58	36.25	2
3	SJR at Old River	47.44	70.59	24.30	32.73	2
4	SJR at Mossdale	40.62	98.35	16.64	17.74	64
5	SJR at Vernalis	42.83	106.51	7.37	16.74	75
6	SJR at Maze	49.11	127.80	14.46	21.80	68
7	SJR at Patterson	57.16	146.29	19.35	26.20	77
8	SJR at Crows Landing	52.37	281.39	4.32	31.97	83
9	SJR at Fremont Ford	85.47	140.10	23.59	43.08	5
10	SJR at Lander Avenue	39.27	175.34	14.87	21.51	81
11	French Camp Slough	48.40	195.21	7.10	66.83	7
12	Stanislaus River at Caswell Park	12.67	48.53	1.69	7.26	65
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	15.09	252.59	0.00	30.62	66
16	Merced River at River Road	18.81	109.53	2.21	19.01	63
17	Merced River near Stevenson	30.16	30.16	30.16	na	1
18	Mud Slough near Gustine	64.26	155.21	4.62	28.96	76
19	Salt Slough at Lander Avenue	96.28	204.65	21.01	43.20	105
20	Los Banos Creek at Highway 140	83.04	314.53	13.13	71.51	66
21	Orestimba Creek at River Road	154.39	579.89	15.75	123.55	58
22	Modesto ID Lateral 4 to SJR	6.38	11.24	3.56	2.92	6
23	Modesto ID Lateral 5 to Tuolumne	13.14	138.36	0.80	25.66	28
24	Modesto ID Lateral 6 to Stanislaus River	12.13	19.29	4.98	10.12	2
25	MID Main Drain to Stan. R. via Miller Lake	34.81	219.04	4.49	34.69	38
26	Turlock ID Highline Spill	10.60	16.10	5.10	7.78	2
27	Turlock ID Lateral 2 to SJR	36.09	119.81	4.22	55.95	4
28	Turlock ID Westport Drain Flow Station	19.78	93.43	1.97	16.51	49
29	Turlock ID Harding Drain	36.03	260.59	5.50	45.89	62
30	Turlock ID Lateral 6 & 7 at Levee	15.05	110.96	1.31	21.36	34
31	BCID - New Jerusalem Drain	5.46	13.92	1.96	4.15	9
32	EI Solvo WD - Grayson Drain	808.73	1447.96	395.48	388.37	5
33	Hospital Creek	1033.53	6335.39	13.68	1627.78	17
34	Ingram Creek Flow Station	552.66	3454.53	6.02	693.81	42
35	Westley Wasteway Flow Station	627.16	3106.37	14.62	1124.13	7
36	Del Puerto Creek Flow Station	130.46	1367.91	7.06	204.98	57
38	Marshall Road Drain	192.77	981.89	36.92	320.58	8
39	Salado Creek Flow Station	283.35	922.56	54.35	426.32	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	42.01	71.88	16.92	12.44	75
45	Volta Wasteway at Ingomar Grade	25.07	105.57	8.87	27.40	11
46	Mud Slough at Gun Club Road	67.31	277.43	30.70	75.37	10
47	Delta-Mendota Cal Hwy 140	13.80	14.65	12.29	1.31	3
48	FC-5 Grasslands Area Farmers	68.13	80.23	56.03	17.11	2
49	PE-14-Grasslands Area Farmers	86.21	94.23	78.18	11.35	2
50	San Luis Drain Site A (Check 18)	88.07	172.76	29.78	61.32	4
51	Arroyo Cal at Hwy 152	125.56	158.94	92.18	47.21	2
52	Salt Slough at Sand Dam	57.77	85.37	3.39	47.10	3
53	Salt Slough at Wolfsen Road	78.05	179.37	28.24	32.52	30
57	Ramona Lake Drain at Levee	122.90	339.22	46.63	64.16	27
59	SJR Laird Park	85.76	333.04	9.31	64.76	22
60	Moffit 1 South	3.14	10.81	0.87	2.18	19
61	Deadman's Slough	30.01	121.66	1.44	31.24	24
62	Mallard Slough	12.12	55.56	1.46	12.98	23
63	Inlet C Canal	85.27	196.60	16.22	48.64	27

DO site number	Site name	Average of TSS, mg/L	Max of TSS, mg/L	Min of TSS, mg/L	StdDev of TSS, mg/L	Count of TSS, mg/L
64	Moran Drain	123.75	265.84	51.50	75.35	6
65	Spanish Grant Drain	274.72	592.47	42.56	230.88	7
66	ESWD Maze Blv. Drain	493.78	1911.80	6.98	945.42	4
67	Newman Wasteway at Brazo Road	99.81	189.36	37.19	54.09	7
68	S. Lake Basin	66.28	211.51	16.93	81.62	5
69	Santa Fe Canal	8.01	8.01	8.01	na	1
80	South Marsh 1 Inlet	27.28	55.81	7.00	10.70	18
81	South Marsh 1 Outlet	9.36	94.32	1.15	20.24	20
82	South Marsh 3 Inlet	22.04	78.84	1.90	17.90	25
83	South Marsh 3 Outlet	19.42	47.16	6.39	12.55	27
84	SJR Garwood Bridge	22.65	22.65	22.65	na	1
86	Ramona Drain Apple Ave	117.76	388.40	39.62	106.43	9
87	Ramona Drain Prune Ave	30.08	52.71	15.68	19.84	3
88	Ramona Drain Apricot Ave	158.32	380.43	11.81	140.35	9
89	Ramona Drain Pomelo Ave	185.85	231.04	149.69	41.42	3
90	Ramona Drain Almond Ave	114.28	114.28	114.28	na	1
91	Paradise Drain Prune Ave	39.07	39.07	39.07	na	1
92	Paradise Drain Apricot Ave	36.29	53.78	16.73	13.54	7
93	Paradise Drain Pomelo Ave	235.30	403.99	29.20	190.18	3
94	Paradise Drain Almond Ave	118.13	156.29	75.22	29.21	7
95	Ramona Lake Entrance	135.17	324.99	40.36	73.71	16
96	WPF-VD-1	438.97	438.97	438.97	na	1
97	WPF-VD-2	168.85	168.85	168.85	na	1
98	WPF-VD-3	70.33	70.33	70.33	na	1
101	WPF-UD-IN	190.45	372.37	8.53	257.28	2
102	WPF-UD-OUT	243.75	415.56	71.95	242.97	2
103	SLD Check 18	119.36	182.90	55.81	89.86	2
104	SLD Check 16	99.04	113.00	85.08	19.74	2
105	SLD Check 15	70.64	90.21	51.07	27.67	2
106	SLD Check 14	76.20	102.79	49.61	37.61	2
107	SLD Check 13	111.74	127.59	95.89	22.41	2
108	SLD Check 12	96.90	128.95	64.84	45.33	2
109	SLD Check 11	64.93	68.83	61.02	5.52	2
110	SLD Check 10	71.01	86.91	55.11	22.48	2
111	SLD Check 9	62.15	65.74	58.57	5.07	2
112	SLD Check 8	62.85	72.37	53.32	13.47	2
113	SLD Check 7	57.40	63.04	51.76	7.98	2
114	SLD Check 6	56.87	65.86	47.88	12.71	2
115	SLD Check 5	48.12	52.17	44.07	5.73	2
116	SLD Check 4	50.68	61.18	40.18	14.85	2
117	SLD Check 3	46.06	48.59	43.53	3.57	2
118	SLD Check 2	61.10	86.14	36.07	35.41	2
119	SLD Check 1	59.46	63.19	55.73	5.28	2
120	South Marsh 1 Intermediary	20.38	41.65	6.31	10.23	11
121	South Marsh 1 East	9.52	33.38	1.98	9.49	10
122	South Marsh 1 West	20.87	82.89	2.72	26.34	9
123	Ramona Lake NW Quad	169.29	241.71	96.87	102.42	2
124	Ramona Lake NE Quad	60.69	64.36	57.02	5.19	2
125	Ramona Lake SW Quad	109.84	109.84	109.84	na	1
126	Ramona Lake SE Quad	77.12	77.12	77.12	na	1
129	Hollow Tree drain	61.40	83.20	37.42	22.97	3
130	Marshall Rd Reservoir Entrance	235.98	775.62	70.88	248.40	7
131	Marshall Rd Reservoir Exit	84.32	185.89	28.78	54.46	7
132	Marshall Rd Res Pond 1W	69.52	127.29	32.92	41.93	5
133	Marshall Rd Res Pond 2E	84.58	157.59	28.38	49.23	5
135	Modesto ID Main Drain Spill	47.52	127.84	19.34	39.98	6

Volatile Suspended Solids

DO site number	Site name	Average of VSS, mg/L	Max of VSS, mg/L	Min of VSS, mg/L	StdDev of VSS, mg/L	Count of VSS, mg/L
1	SJR at Channel Point	7.31	9.53	5.09	3.14	2
2	SJR at Dos Reis Lathrop	9.73	10.94	8.52	1.71	2
3	SJR at Old River	8.76	9.97	7.55	1.72	2
4	SJR at Mossdale	6.68	15.69	0.51	3.73	64
5	SJR at Vernalis	6.46	19.70	0.68	3.37	75
6	SJR at Maze	7.75	40.96	0.42	5.95	69
7	SJR at Patterson	8.84	41.99	0.13	5.64	77
8	SJR at Crows Landing	7.67	13.70	0.53	3.05	82
9	SJR at Fremont Ford	12.37	17.80	5.24	4.82	5
10	SJR at Lander Avenue	10.23	26.62	0.55	5.42	81
11	French Camp Slough	6.36	22.34	0.33	7.61	7
12	Stanislaus River at Caswell Park	1.92	7.96	0.00	1.27	66
13	Stanislaus River at Ripon	4.55	4.55	4.55	na	1
14	Tuolumne River at Shiloh Bridge	1.93	8.23	0.03	1.39	66
16	Merced River at River Road	2.54	15.44	0.00	2.24	66
17	Merced River near Stevenson	0.74	0.74	0.74	na	1
18	Mud Slough near Gustine	13.29	28.47	0.49	5.77	76
19	Salt Slough at Lander Avenue	10.72	21.65	0.89	4.47	104
20	Los Banos Creek at Highway 140	13.03	37.01	1.36	8.45	67
21	Orestimba Creek at River Road	13.93	51.15	0.84	9.68	58
22	Modesto ID Lateral 4 to SJR	1.69	2.96	0.75	0.87	6
23	Modesto ID Lateral 5 to Tuolumne	2.73	18.95	0.00	3.47	28
24	Modesto ID Lateral 6 to Stanislaus River	2.88	4.50	1.26	2.29	2
25	MID Main Drain to Stan. R. via Miller Lake	8.91	104.79	1.02	16.35	38
26	Turlock ID Highline Spill	1.03	1.27	0.79	0.34	2
27	Turlock ID Lateral 2 to SJR	4.45	12.95	1.00	5.72	4
28	Turlock ID Westport Drain Flow Station	2.92	8.62	0.09	1.80	49
29	Turlock ID Harding Drain	4.55	15.32	0.15	3.13	64
30	Turlock ID Lateral 6 & 7 at Levee	2.16	8.45	0.36	1.66	34
31	BCID - New Jerusalem Drain	0.57	1.20	0.00	0.40	9
32	EI Solyo WD - Grayson Drain	58.68	82.75	33.36	18.10	5
33	Hospital Creek	60.38	344.24	0.49	87.55	17
34	Ingram Creek Flow Station	35.56	180.13	1.22	38.97	43
35	Westley Wasteway Flow Station	35.19	147.77	5.75	51.88	7
36	Del Puerto Creek Flow Station	12.82	126.36	0.70	18.40	57
38	Marshall Road Drain	19.08	72.85	3.87	22.20	8
39	Salado Creek Flow Station	25.06	64.21	10.56	26.13	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	16.61	37.22	0.43	7.05	76
45	Volta Wasteway at Ingomar Grade	3.10	5.18	1.30	1.22	11
46	Mud Slough at Gun Club Road	9.88	21.66	5.55	5.42	10
47	Delta-Mendota Cal Hwy 140	2.10	2.40	1.79	0.31	3
48	FC-5 Grasslands Area Farmers	12.54	13.92	11.17	1.94	2
49	PE-14-Grasslands Area Farmers	17.88	20.44	15.32	3.62	2
50	San Luis Drain Site A (Check 18)	10.51	15.48	4.88	4.35	4
51	Arroyo Cal at Hwy 152	14.20	16.14	12.25	2.75	2
52	Salt Slough at Sand Dam	6.30	10.09	1.21	4.58	3
53	Salt Slough at Wolfsen Road	9.42	20.52	3.26	3.44	30
57	Ramona Lake Drain at Levee	22.84	40.77	3.50	9.15	27
59	SJR Laird Park	9.37	29.31	2.78	6.10	22
60	Moffit 1 South	1.85	7.90	0.24	1.98	19
61	Deadman's Slough	6.29	29.56	0.41	6.68	24
62	Mallard Slough	3.89	18.74	0.29	3.86	23
63	Inlet C Canal	8.33	16.18	1.66	3.65	27

DO site number	Site name	Average of VSS, mg/L	Max of VSS, mg/L	Min of VSS, mg/L	StdDev of VSS, mg/L	Count of VSS, mg/L
64	Moran Drain	10.64	21.09	3.28	5.88	6
65	Spanish Grant Drain	22.11	43.35	4.42	14.63	7
66	ESWD Maze Blv. Drain	27.62	102.66	1.40	50.03	4
67	Newman Wasteway at Brazo Road	10.55	19.36	4.59	5.11	7
68	S. Lake Basin	11.04	22.31	3.08	8.23	5
69	Santa Fe Canal	2.00	2.00	2.00	na	1
80	South Marsh 1 Inlet	4.18	8.80	1.02	1.97	18
81	South Marsh 1 Outlet	3.41	24.67	0.30	5.46	20
82	South Marsh 3 Inlet	7.26	48.91	0.84	9.59	25
83	South Marsh 3 Outlet	6.16	27.64	1.41	6.81	27
84	SJR Garwood Bridge	7.14	7.14	7.14	na	1
86	Ramona Drain Apple Ave	13.69	33.56	7.31	7.72	9
87	Ramona Drain Prune Ave	5.01	7.87	3.04	2.53	3
88	Ramona Drain Apricot Ave	18.85	35.01	3.75	12.16	9
89	Ramona Drain Pomelo Ave	21.96	30.31	16.49	7.35	3
90	Ramona Drain Almond Ave	13.01	13.01	13.01	na	1
91	Paradise Drain Prune Ave	8.66	8.66	8.66	na	1
92	Paradise Drain Apricot Ave	7.50	9.14	3.69	1.99	7
93	Paradise Drain Pomelo Ave	22.57	33.01	4.48	15.73	3
94	Paradise Drain Almond Ave	15.10	17.78	11.88	1.94	7
95	Ramona Lake Entrance	17.53	24.15	7.34	4.04	16
96	WPF-VD-1	38.14	38.14	38.14	na	1
97	WPF-VD-2	17.81	17.81	17.81	na	1
98	WPF-VD-3	29.32	29.32	29.32	na	1
101	WPF-UD-IN	17.54	32.99	2.09	21.85	2
102	WPF-UD-OUT	22.56	36.85	8.27	20.21	2
103	SLD Check 18	12.88	16.88	8.88	5.66	2
104	SLD Check 16	11.29	12.16	10.43	1.22	2
105	SLD Check 15	11.12	11.39	10.85	0.38	2
106	SLD Check 14	12.91	15.99	9.84	4.35	2
107	SLD Check 13	16.96	19.01	14.91	2.90	2
108	SLD Check 12	16.79	21.31	12.26	6.40	2
109	SLD Check 11	14.25	14.55	13.95	0.42	2
110	SLD Check 10	15.64	18.86	12.43	4.55	2
111	SLD Check 9	16.62	17.21	16.03	0.84	2
112	SLD Check 8	17.32	18.11	16.54	1.11	2
113	SLD Check 7	16.19	16.23	16.15	0.06	2
114	SLD Check 6	18.01	19.25	16.77	1.75	2
115	SLD Check 5	16.00	18.01	13.99	2.84	2
116	SLD Check 4	19.69	24.12	15.25	6.27	2
117	SLD Check 3	20.42	23.73	17.10	4.69	2
118	SLD Check 2	19.77	24.30	15.24	6.41	2
119	SLD Check 1	23.28	28.13	18.43	6.85	2
120	South Marsh 1 Intermediary	3.19	4.51	2.28	0.76	11
121	South Marsh 1 East	3.86	11.68	0.34	3.59	10
122	South Marsh 1 West	6.76	15.74	2.22	3.92	9
123	Ramona Lake NW Quad	58.11	77.68	38.54	27.67	2
124	Ramona Lake NE Quad	14.55	14.77	14.33	0.31	2
125	Ramona Lake SW Quad	36.90	36.90	36.90	na	1
126	Ramona Lake SE Quad	26.12	26.12	26.12	na	1
129	Hollow Tree drain	15.02	18.20	10.82	3.80	3
130	Marshall Rd Reservoir Entrance	19.83	58.09	8.91	17.74	7
131	Marshall Rd Reservoir Exit	12.18	21.72	5.82	5.58	7
132	Marshall Rd Res Pond 1W	9.58	13.86	6.61	3.24	5
133	Marshall Rd Res Pond 2E	10.64	14.82	5.72	3.92	5
135	Modesto ID Main Drain Spill	5.07	6.34	3.54	0.99	6

Total Nitrogen (analyzed by UC Davis)

DO site number	Site name	Average of UC Davis Total-N mg/L	Max of UC Davis Total-N mg/L	Min of UC Davis Total-N mg/L	StdDev of UC Davis Total-N mg/L	Count of UC Davis Total N mg/L
1	SJR at Channel Point	2.07	2.12	2.02	0.08	2
2	SJR at Dos Reis Lathrop	1.48	1.53	1.42	0.08	2
3	SJR at Old River	1.69	1.83	1.56	0.19	2
4	SJR at Mossdale	1.74	2.76	0.32	0.66	64
5	SJR at Vernalis	1.79	2.94	0.31	0.70	70
6	SJR at Maze	2.52	4.10	0.35	1.13	68
7	SJR at Patterson	3.26	6.02	0.49	1.49	72
8	SJR at Crows Landing	2.94	6.45	0.44	1.31	78
9	SJR at Fremont Ford	2.28	4.82	1.16	1.70	4
10	SJR at Lander Avenue	2.41	9.58	0.02	1.84	81
11	French Camp Slough	1.81	2.33	0.76	0.54	7
12	Stanislaus River at Caswell Park	0.43	0.98	0.10	0.17	65
13	Stanislaus River at Ripon	0.79	0.79	0.79	na	1
14	Tuolumne River at Shiloh Bridge	1.41	3.00	0.19	0.78	66
16	Merced River at River Road	1.97	12.85	0.20	1.93	65
17	Merced River near Stevenson	0.17	0.17	0.17	na	1
18	Mud Slough near Gustine	6.04	15.96	1.51	3.30	74
19	Salt Slough at Lander Avenue	2.03	5.32	0.58	1.06	101
20	Los Banos Creek at Highway 140	2.17	5.94	0.56	1.07	65
21	Orestimba Creek at River Road	4.69	13.01	0.45	3.20	57
22	Modesto ID Lateral 4 to SJR	1.54	5.24	0.30	1.88	6
23	Modesto ID Lateral 5 to Tuolumne	1.87	18.35	0.08	3.56	29
24	Modesto ID Lateral 6 to Stanislaus River	0.68	0.92	0.44	0.34	2
25	MID Main Drain to Stan. R. via Miller Lake	3.43	30.79	0.59	4.61	40
26	Turlock ID Highline Spill	0.24	0.30	0.17	0.09	2
27	Turlock ID Lateral 2 to SJR	1.90	4.07	0.30	1.83	4
28	Turlock ID Westport Drain Flow Station	13.53	30.53	2.21	6.15	50
29	Turlock ID Harding Drain	10.69	23.30	4.56	4.05	64
30	Turlock ID Lateral 6 & 7 at Levee	16.39	40.06	6.41	5.39	35
31	BCID - New Jerusalem Drain	14.50	16.79	13.36	1.00	9
32	EI Solvo WD - Grayson Drain	7.53	21.46	2.75	7.85	5
33	Hospital Creek	2.70	5.65	0.83	1.51	17
34	Ingram Creek Flow Station	7.36	16.94	1.64	4.30	44
35	Westley Wasteway Flow Station	2.42	4.30	0.37	1.41	7
36	Del Puerto Creek Flow Station	5.75	19.56	0.22	3.46	57
38	Marshall Road Drain	4.60	9.08	1.31	2.80	8
39	Salado Creek Flow Station	5.51	11.68	1.84	4.27	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	13.99	28.63	3.76	5.44	72
45	Volta Wasteway at Ingomar Grade	2.81	5.36	1.00	1.62	11
46	Mud Slough at Gun Club Road	1.40	2.23	0.77	0.45	11
47	Delta-Mendota Cal Hwy 140	3.64	9.15	0.38	4.80	3
48	FC-5 Grasslands Area Farmers	18.11	23.02	13.19	6.96	2
49	PE-14-Grasslands Area Farmers	16.93	23.00	10.86	8.59	2
50	San Luis Drain Site A (Check 18)	15.60	18.25	13.61	1.95	4
51	Arroyo Cal at Hwy 152	1.57	1.66	1.47	0.13	2
52	Salt Slough at Sand Dam	2.85	4.25	1.99	1.23	3
53	Salt Slough at Wolfsen Road	1.76	4.43	0.68	0.92	30
57	Ramona Lake Drain at Levee	4.10	5.67	2.81	0.89	28
59	SJR Laird Park	2.74	8.06	0.57	1.46	22
60	Moffit 1 South	0.95	2.10	0.37	0.47	19
61	Deadman's Slough	1.25	3.99	0.29	0.77	24
62	Mallard Slough	0.88	2.30	0.33	0.46	23
63	Inlet C Canal	2.06	5.53	0.81	1.34	27

DO site number	Site name	Average of UC Davis Total-N mg/L	Max of UC Davis Total-N mg/L	Min of UC Davis Total-N mg/L	StdDev of UC Davis Total-N mg/L	Count of UC Davis Total-N mg/L
64	Moran Drain	3.89	6.43	1.14	2.60	6
65	Spanish Grant Drain	6.84	11.28	3.19	2.84	7
66	ESWD Maze Blv. Drain	1.37	2.25	0.53	0.82	4
67	Newman Wasteway at Brazo Road	3.83	5.79	0.95	1.66	7
68	S. Lake Basin	1.69	3.78	0.45	1.29	5
69	Santa Fe Canal	2.38	2.38	2.38	na	1
80	South Marsh 1 Inlet	1.68	5.24	0.62	1.37	18
81	South Marsh 1 Outlet	1.06	4.42	0.25	1.02	20
82	South Marsh 3 Inlet	1.03	2.03	0.16	0.48	25
83	South Marsh 3 Outlet	0.84	1.64	0.35	0.30	28
84	SJR Garwood Bridge	2.23	2.23	2.23	na	1
86	Ramona Drain Apple Ave	7.43	24.48	2.48	7.73	9
87	Ramona Drain Prune Ave	2.96	3.72	1.76	1.05	3
88	Ramona Drain Apricot Ave	5.02	13.76	0.40	3.86	9
89	Ramona Drain Pomelo Ave	4.88	6.11	3.59	1.26	3
90	Ramona Drain Almond Ave	6.27	6.27	6.27	na	1
91	Paradise Drain Prune Ave	2.02	2.02	2.02	na	1
92	Paradise Drain Apricot Ave	2.86	4.54	1.08	1.27	7
93	Paradise Drain Pomelo Ave	2.40	4.53	1.20	1.85	3
94	Paradise Drain Almond Ave	3.98	5.61	1.58	1.31	7
95	Ramona Lake Entrance	5.17	7.65	3.10	1.33	15
96	WPF-VD-1	17.47	17.47	17.47	na	1
97	WPF-VD-2	18.54	18.54	18.54	na	1
98	WPF-VD-3	15.89	15.89	15.89	na	1
101	WPF-UD-IN	13.18	16.57	9.78	4.80	2
102	WPF-UD-OUT	10.44	16.80	4.07	9.00	2
103	SLD Check 18	16.67	18.40	14.94	2.45	2
104	SLD Check 16	17.16	18.69	15.64	2.16	2
105	SLD Check 15	16.60	17.48	15.72	1.24	2
106	SLD Check 14	15.76	17.33	14.19	2.22	2
107	SLD Check 13	14.74	16.47	13.02	2.44	2
108	SLD Check 12	15.28	17.21	13.34	2.74	2
109	SLD Check 11	14.40	16.21	12.59	2.56	2
110	SLD Check 10	14.25	14.84	13.66	0.84	2
111	SLD Check 9	15.24	16.77	13.70	2.17	2
112	SLD Check 8	15.95	17.52	14.39	2.21	2
113	SLD Check 7	15.39	16.54	14.25	1.62	2
114	SLD Check 6	15.25	16.91	13.59	2.35	2
115	SLD Check 5	14.23	14.39	14.07	0.23	2
116	SLD Check 4	14.83	15.47	14.18	0.91	2
117	SLD Check 3	14.23	14.88	13.58	0.92	2
118	SLD Check 2	13.70	13.89	13.51	0.27	2
119	SLD Check 1	13.71	15.00	12.41	1.83	2
120	South Marsh 1 Intermediary	1.31	4.42	0.53	1.07	11
121	South Marsh 1 East	1.40	3.51	0.38	1.17	10
122	South Marsh 1 West	1.42	2.33	0.05	0.75	9
123	Ramona Lake NW Quad	4.52	4.52	4.52	na	1
124	Ramona Lake NE Quad	4.76	4.76	4.76	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	1.50	1.78	1.34	0.24	3
130	Marshall Rd Reservoir Entrance	3.36	5.79	1.79	1.54	7
131	Marshall Rd Reservoir Exit	3.67	6.13	2.39	1.51	7
132	Marshall Rd Res Pond 1W	3.36	5.72	2.00	1.42	5
133	Marshall Rd Res Pond 2E	3.38	5.56	2.20	1.35	5
135	Modesto ID Main Drain Spill	3.42	4.95	0.99	1.49	6

Ammonium (NH4-N) (analyzed by UC Davis)

DO site number	Site name	Average of UC Davis NH4-N, mg/L	Max of UC Davis NH4-N, mg/L	Min of UC Davis NH4-N, mg/L	StdDev of UC Davis NH4-N, mg/L	Count of UC Davis NH4-N, mg/L
1	SJR at Channel Point	0.29	0.40	0.18	0.16	2
2	SJR at Dos Reis Lathrop	0.06	0.10	0.02	0.05	2
3	SJR at Old River	0.06	0.10	0.02	0.05	2
4	SJR at Mossdale	0.03	0.10	0.00	0.02	65
5	SJR at Vernalis	0.04	0.13	0.01	0.03	72
6	SJR at Maze	0.04	0.17	0.01	0.04	69
7	SJR at Patterson	0.04	0.45	0.00	0.06	74
8	SJR at Crows Landing	0.04	0.21	0.00	0.04	80
9	SJR at Fremont Ford	0.02	0.03	0.01	0.01	5
10	SJR at Lander Avenue	0.05	0.52	0.01	0.07	83
11	French Camp Slough	0.06	0.16	0.01	0.05	7
12	Stanislaus River at Caswell Park	0.04	0.40	0.00	0.05	67
13	Stanislaus River at Ripon	0.02	0.02	0.02	na	1
14	Tuolumne River at Shiloh Bridge	0.03	0.15	0.00	0.03	68
16	Merced River at River Road	0.05	0.14	0.01	0.03	67
17	Merced River near Stevenson	0.03	0.03	0.03	na	1
18	Mud Slough near Gustine	0.11	1.09	0.01	0.14	76
19	Salt Slough at Lander Avenue	0.10	1.25	0.01	0.13	103
20	Los Banos Creek at Highway 140	0.23	3.22	0.01	0.43	66
21	Orestimba Creek at River Road	0.21	5.76	0.01	0.77	58
22	Modesto ID Lateral 4 to SJR	0.05	0.08	0.03	0.02	6
23	Modesto ID Lateral 5 to Tuolumne	0.14	1.16	0.01	0.25	29
24	Modesto ID Lateral 6 to Stanislaus River	0.16	0.26	0.07	0.14	2
25	MID Main Drain to Stan. R. via Miller Lake	0.72	21.76	0.01	3.44	40
26	Turlock ID Highline Spill	0.06	0.08	0.03	0.04	2
27	Turlock ID Lateral 2 to SJR	0.02	0.02	0.01	0.01	4
28	Turlock ID Westport Drain Flow Station	0.11	1.44	0.02	0.22	50
29	Turlock ID Harding Drain	0.28	2.67	0.02	0.44	65
30	Turlock ID Lateral 6 & 7 at Levee	0.13	0.91	0.02	0.20	35
31	BCID - New Jerusalem Drain	0.02	0.10	0.00	0.03	9
32	EI Solyo WD - Grayson Drain	1.14	4.99	0.01	2.17	5
33	Hospital Creek	0.15	0.77	0.02	0.21	17
34	Ingram Creek Flow Station	0.49	2.85	0.02	0.72	44
35	Westley Wasteway Flow Station	0.09	0.20	0.04	0.06	7
36	Del Puerto Creek Flow Station	0.46	4.93	0.00	0.85	58
38	Marshall Road Drain	0.17	0.67	0.05	0.21	8
39	Salado Creek Flow Station	0.47	1.36	0.04	0.60	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	0.07	0.58	0.00	0.11	73
45	Volta Wasteway at Ingomar Grade	0.07	0.28	0.02	0.07	11
46	Mud Slough at Gun Club Road	0.11	0.18	0.01	0.05	11
47	Delta-Mendota Cal Hwy 140	0.87	2.58	0.01	1.48	3
48	FC-5 Grasslands Area Farmers	0.19	0.33	0.04	0.21	2
49	PE-14-Grasslands Area Farmers	0.04	0.06	0.02	0.03	2
50	San Luis Drain Site A (Check 18)	0.03	0.04	0.02	0.01	4
51	Arroyo Cal at Hwy 152	0.08	0.13	0.04	0.06	2
52	Salt Slough at Sand Dam	0.23	0.47	0.10	0.20	3
53	Salt Slough at Wolfsen Road	0.13	0.39	0.04	0.08	30
57	Ramona Lake Drain at Levee	0.31	1.38	0.01	0.34	28
59	SJR Laird Park	0.08	0.39	0.00	0.10	22
60	Moffit 1 South	0.08	0.25	0.01	0.06	19
61	Deadman's Slough	0.11	0.65	0.01	0.13	24
62	Mallard Slough	0.08	0.32	0.01	0.08	23
63	Inlet C Canal	0.11	0.64	0.02	0.13	27

DO site number	Site name	Average of UC Davis NH4-N, mg/L	Max of UC Davis NH4-N, mg/L	Min of UC Davis NH4-N, mg/L	StdDev of UC Davis NH4-N, mg/L	Count of UC Davis NH4-N, mg/L
64	Moran Drain	0.06	0.10	0.02	0.03	6
65	Spanish Grant Drain	0.13	0.25	0.04	0.09	7
66	ESWD Maze Blv. Drain	0.09	0.26	0.03	0.11	4
67	Newman Wasteway at Brazo Road	0.26	0.98	0.05	0.33	7
68	S. Lake Basin	0.10	0.24	0.01	0.09	5
69	Santa Fe Canal	0.03	0.03	0.03	na	1
80	South Marsh 1 Inlet	0.07	0.29	0.02	0.08	18
81	South Marsh 1 Outlet	0.17	2.52	0.02	0.55	20
82	South Marsh 3 Inlet	0.11	0.57	0.01	0.12	25
83	South Marsh 3 Outlet	0.05	0.17	0.01	0.04	28
84	SJR Garwood Bridge	0.80	0.80	0.80	na	1
86	Ramona Drain Apple Ave	1.44	5.89	0.04	2.16	9
87	Ramona Drain Prune Ave	0.82	1.22	0.36	0.43	3
88	Ramona Drain Apricot Ave	0.89	2.25	0.01	0.80	9
89	Ramona Drain Pomelo Ave	1.25	2.12	0.70	0.76	3
90	Ramona Drain Almond Ave	0.58	0.58	0.58	na	1
91	Paradise Drain Prune Ave	0.16	0.16	0.16	na	1
92	Paradise Drain Apricot Ave	0.15	0.29	0.01	0.10	7
93	Paradise Drain Pomelo Ave	0.28	0.61	0.08	0.29	3
94	Paradise Drain Almond Ave	0.34	0.72	0.08	0.26	7
95	Ramona Lake Entrance	0.38	1.68	0.04	0.40	15
96	WPF-VD-1	3.54	3.54	3.54	na	1
97	WPF-VD-2	3.31	3.31	3.31	na	1
98	WPF-VD-3	4.37	4.37	4.37	na	1
101	WPF-UD-IN	1.87	3.63	0.10	2.50	2
102	WPF-UD-OUT	1.89	3.39	0.39	2.12	2
103	SLD Check 18	0.02	0.02	0.02	0.00	2
104	SLD Check 16	0.02	0.02	0.02	0.00	2
105	SLD Check 15	0.03	0.03	0.03	0.00	2
106	SLD Check 14	0.03	0.03	0.03	0.00	2
107	SLD Check 13	0.02	0.02	0.02	0.00	2
108	SLD Check 12	0.02	0.02	0.02	0.00	2
109	SLD Check 11	0.02	0.02	0.02	0.00	2
110	SLD Check 10	0.02	0.03	0.02	0.01	2
111	SLD Check 9	0.02	0.03	0.02	0.01	2
112	SLD Check 8	0.02	0.03	0.02	0.01	2
113	SLD Check 7	0.02	0.03	0.02	0.01	2
114	SLD Check 6	0.03	0.03	0.02	0.01	2
115	SLD Check 5	0.02	0.03	0.02	0.01	2
116	SLD Check 4	0.03	0.03	0.02	0.01	2
117	SLD Check 3	0.04	0.04	0.03	0.01	2
118	SLD Check 2	0.04	0.04	0.03	0.01	2
119	SLD Check 1	0.07	0.08	0.05	0.02	2
120	South Marsh 1 Intermediary	0.09	0.36	0.02	0.10	11
121	South Marsh 1 East	0.09	0.40	0.02	0.11	10
122	South Marsh 1 West	0.05	0.12	0.02	0.03	9
123	Ramona Lake NW Quad	0.17	0.17	0.17	na	1
124	Ramona Lake NE Quad	0.08	0.08	0.08	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	0.11	0.15	0.02	0.08	3
130	Marshall Rd Reservoir Entrance	0.06	0.16	0.02	0.05	7
131	Marshall Rd Reservoir Exit	0.07	0.14	0.01	0.05	7
132	Marshall Rd Res Pond 1W	0.08	0.24	0.02	0.09	5
133	Marshall Rd Res Pond 2E	0.08	0.26	0.01	0.10	5
135	Modesto ID Main Drain Spill	0.13	0.35	0.06	0.11	6

Nitrate (NO₃-N) (analyzed by UC Davis)

DO site number	Site name	Average of UC Davis NO ₃ -N, mg/L	Max of UC Davis NO ₃ -N, mg/L	Min of UC Davis NO ₃ -N, mg/L	StdDev of UC Davis NO ₃ -N, mg/L	Count of UC Davis NO ₃ -N, mg/L
1	SJR at Channel Point	1.09	1.30	0.89	0.28	2
2	SJR at Dos Reis Lathrop	0.79	0.83	0.74	0.06	2
3	SJR at Old River	0.95	0.96	0.95	0.01	2
4	SJR at Mossdale	1.24	2.45	0.08	0.61	65
5	SJR at Vernalis	1.32	2.78	0.07	0.65	72
6	SJR at Maze	1.94	3.72	0.06	1.00	69
7	SJR at Patterson	2.55	5.90	0.08	1.40	74
8	SJR at Crows Landing	2.24	6.11	0.08	1.25	80
9	SJR at Fremont Ford	1.40	3.44	0.15	1.29	5
10	SJR at Lander Avenue	1.38	6.65	0.01	1.54	83
11	French Camp Slough	1.33	2.03	0.49	0.56	7
12	Stanislaus River at Caswell Park	0.23	0.74	0.03	0.13	67
13	Stanislaus River at Ripon	0.33	0.33	0.33	na	1
14	Tuolumne River at Shiloh Bridge	1.10	2.42	0.02	0.75	68
16	Merced River at River Road	1.65	12.43	0.04	1.86	67
17	Merced River near Stevenson	0.11	0.11	0.11	na	1
18	Mud Slough near Gustine	4.82	14.96	0.14	3.28	76
19	Salt Slough at Lander Avenue	1.28	4.31	0.01	0.96	103
20	Los Banos Creek at Highway 140	0.62	2.09	0.01	0.53	66
21	Orestimba Creek at River Road	3.84	12.04	0.05	2.97	58
22	Modesto ID Lateral 4 to SJR	1.19	4.69	0.01	1.80	6
23	Modesto ID Lateral 5 to Tuolumne	1.32	17.97	0.00	3.36	29
24	Modesto ID Lateral 6 to Stanislaus River	0.09	0.11	0.06	0.04	2
25	MID Main Drain to Stan. R. via Miller Lake	1.73	4.44	0.00	1.31	40
26	Turlock ID Highline Spill	0.08	0.13	0.03	0.07	2
27	Turlock ID Lateral 2 to SJR	1.62	3.68	0.06	1.73	4
28	Turlock ID Westport Drain Flow Station	11.95	29.83	0.62	6.06	50
29	Turlock ID Harding Drain	9.56	22.39	4.21	3.84	65
30	Turlock ID Lateral 6 & 7 at Levee	14.95	36.46	5.66	5.15	35
31	BCID - New Jerusalem Drain	13.78	14.96	12.82	0.73	9
32	EI Solyo WD - Grayson Drain	5.29	15.87	0.86	6.10	5
33	Hospital Creek	1.28	3.72	0.35	0.97	17
34	Ingram Creek Flow Station	5.74	16.53	0.61	3.57	44
35	Westley Wasteway Flow Station	1.50	4.26	0.10	1.30	7
36	Del Puerto Creek Flow Station	4.04	10.71	0.01	2.15	58
38	Marshall Road Drain	3.41	8.25	1.03	2.40	8
39	Salado Creek Flow Station	3.44	7.13	0.70	2.73	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	13.05	30.29	2.82	5.85	73
45	Volta Wasteway at Ingomar Grade	2.45	4.73	0.74	1.48	11
46	Mud Slough at Gun Club Road	0.06	0.13	0.01	0.04	11
47	Delta-Mendota Cal Hwy 140	1.46	3.24	0.16	1.60	3
48	FC-5 Grasslands Area Farmers	16.20	21.19	11.20	7.07	2
49	PE-14-Grasslands Area Farmers	15.53	22.16	8.91	9.37	2
50	San Luis Drain Site A (Check 18)	14.45	16.96	11.76	2.13	4
51	Arroyo Cal at Hwy 152	0.60	0.76	0.44	0.23	2
52	Salt Slough at Sand Dam	2.09	3.21	1.29	1.00	3
53	Salt Slough at Wolfsen Road	1.04	3.93	0.20	0.85	30
57	Ramona Lake Drain at Levee	2.05	4.02	0.09	1.03	28
59	SJR Laird Park	2.05	6.63	0.16	1.31	22
60	Moffit 1 South	0.05	0.77	0.00	0.17	19
61	Deadman's Slough	0.31	3.24	0.00	0.69	24
62	Mallard Slough	0.09	0.45	0.00	0.14	23
63	Inlet C Canal	1.55	4.92	0.53	1.21	27

DO site number	Site name	Average of UC Davis NO3-N, mg/L	Max of UC Davis NO3-N, Min of UC Davis NO3-N, mg/L	StdDev of UC Davis NO3-N, mg/L	Count of UC Davis NO3-N, mg/L
64	Moran Drain	3.29	6.32	0.39	2.83
65	Spanish Grant Drain	5.74	9.82	2.63	2.58
66	ESWD Maze Blv. Drain	0.74	1.26	0.35	0.39
67	Newman Wasteway at Brazo Road	3.01	5.28	0.36	1.58
68	S. Lake Basin	0.80	3.01	0.02	1.28
69	Santa Fe Canal	1.89	1.89	1.89	na
80	South Marsh 1 Inlet	1.16	4.58	0.13	1.23
81	South Marsh 1 Outlet	0.15	2.66	0.00	0.59
82	South Marsh 3 Inlet	0.09	0.78	0.00	0.19
83	South Marsh 3 Outlet	0.03	0.38	0.00	0.07
84	SJR Garwood Bridge	0.70	0.70	0.70	na
86	Ramona Drain Apple Ave	3.16	6.90	1.65	1.96
87	Ramona Drain Prune Ave	1.00	1.64	0.64	0.55
88	Ramona Drain Apricot Ave	2.25	4.64	0.17	1.71
89	Ramona Drain Pomelo Ave	2.02	2.32	1.68	0.32
90	Ramona Drain Almond Ave	4.22	4.22	4.22	na
91	Paradise Drain Prune Ave	0.15	0.15	0.15	na
92	Paradise Drain Apricot Ave	1.98	4.08	0.19	1.43
93	Paradise Drain Pomelo Ave	1.12	2.37	0.41	1.09
94	Paradise Drain Almond Ave	2.74	3.71	0.77	1.11
95	Ramona Lake Entrance	3.43	6.30	1.18	1.30
96	WPF-VD-1	4.35	4.35	4.35	na
97	WPF-VD-2	4.89	4.89	4.89	na
98	WPF-VD-3	5.95	5.95	5.95	na
101	WPF-UD-IN	4.53	4.55	4.52	0.02
102	WPF-UD-OUT	3.54	4.72	2.36	1.67
103	SLD Check 18	16.00	17.63	14.37	2.30
104	SLD Check 16	15.98	17.73	14.24	2.47
105	SLD Check 15	15.17	17.39	12.94	3.15
106	SLD Check 14	14.87	16.42	13.32	2.19
107	SLD Check 13	14.36	16.40	12.31	2.89
108	SLD Check 12	14.99	16.69	13.28	2.42
109	SLD Check 11	14.32	16.07	12.57	2.48
110	SLD Check 10	14.22	14.81	13.64	0.82
111	SLD Check 9	14.70	16.00	13.41	1.84
112	SLD Check 8	14.47	16.27	12.67	2.54
113	SLD Check 7	14.76	15.86	13.67	1.55
114	SLD Check 6	14.67	15.96	13.39	1.81
115	SLD Check 5	13.72	13.74	13.70	0.03
116	SLD Check 4	13.81	14.23	13.39	0.60
117	SLD Check 3	14.01	14.52	13.51	0.72
118	SLD Check 2	13.46	13.63	13.29	0.24
119	SLD Check 1	12.80	13.50	12.11	0.98
120	South Marsh 1 Intermediary	0.85	3.69	0.12	0.98
121	South Marsh 1 East	0.44	2.60	0.00	0.78
122	South Marsh 1 West	0.01	0.01	0.00	0.01
123	Ramona Lake NW Quad	0.10	0.10	0.10	na
124	Ramona Lake NE Quad	3.19	3.19	3.19	na
125	Ramona Lake SW Quad	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na
129	Hollow Tree drain	0.02	0.04	0.01	0.02
130	Marshall Rd Reservoir Entrance	2.86	5.54	1.27	1.55
131	Marshall Rd Reservoir Exit	2.84	5.52	1.49	1.72
132	Marshall Rd Res Pond 1W	2.78	4.91	1.60	1.29
133	Marshall Rd Res Pond 2E	2.76	4.89	1.50	1.32
135	Modesto ID Main Drain Spill	2.80	4.58	0.42	1.53

Total Phosphorus (analyzed by UC Davis)

DO site number	Site name	Average of UC Davis Total P mg/L	Max of UC Davis Total P mg/L	Min of UC Davis Total P mg/L	StdDev of UC Davis Total P mg/L	Count of UC Davis Total P mg/L
1	SJR at Channel Point	0.19	0.22	0.15	0.05	2
2	SJR at Dos Reis Lathrop	0.18	0.19	0.17	0.01	2
3	SJR at Old River	0.17	0.18	0.15	0.03	2
4	SJR at Mossdale	0.18	0.38	0.06	0.06	64
5	SJR at Vernalis	0.17	0.64	0.06	0.08	70
6	SJR at Maze	0.21	0.41	0.05	0.07	68
7	SJR at Patterson	0.33	0.80	0.09	0.13	72
8	SJR at Crows Landing	0.19	0.38	0.07	0.06	78
9	SJR at Fremont Ford	0.35	0.43	0.26	0.07	4
10	SJR at Lander Avenue	0.23	0.50	0.06	0.09	81
11	French Camp Slough	0.19	0.26	0.16	0.04	7
12	Stanislaus River at Caswell Park	0.06	0.32	0.01	0.04	65
13	Stanislaus River at Ripon	0.05	0.05	0.05	na	1
14	Tuolumne River at Shiloh Bridge	0.09	0.39	0.01	0.07	66
16	Merced River at River Road	0.06	0.40	0.01	0.06	65
17	Merced River near Stevenson	0.03	0.03	0.03	na	1
18	Mud Slough near Gustine	0.22	0.56	0.04	0.11	74
19	Salt Slough at Lander Avenue	0.35	0.75	0.14	0.13	101
20	Los Banos Creek at Highway 140	0.62	1.46	0.20	0.29	65
21	Orestimba Creek at River Road	0.28	0.76	0.05	0.16	57
22	Modesto ID Lateral 4 to SJR	0.07	0.10	0.03	0.03	6
23	Modesto ID Lateral 5 to Tuolumne	0.15	1.43	0.01	0.30	29
24	Modesto ID Lateral 6 to Stanislaus River	0.36	0.46	0.26	0.14	2
25	MID Main Drain to Stan. R. via Miller Lake	0.55	6.34	0.04	1.00	40
26	Turlock ID Highline Spill	0.04	0.05	0.03	0.01	2
27	Turlock ID Lateral 2 to SJR	0.02	0.03	0.01	0.01	4
28	Turlock ID Westport Drain Flow Station	0.29	0.98	0.04	0.20	50
29	Turlock ID Harding Drain	2.01	5.20	0.12	1.28	64
30	Turlock ID Lateral 6 & 7 at Levee	0.59	1.22	0.29	0.21	35
31	BCID - New Jerusalem Drain	0.07	0.08	0.04	0.02	9
32	EI Solvo WD - Grayson Drain	0.50	0.77	0.11	0.26	5
33	Hospital Creek	0.52	1.44	0.10	0.36	17
34	Ingram Creek Flow Station	0.40	1.49	0.04	0.27	44
35	Westley Wasteway Flow Station	0.26	0.55	0.12	0.16	7
36	Del Puerto Creek Flow Station	0.34	0.92	0.05	0.20	57
38	Marshall Road Drain	0.43	0.77	0.16	0.23	8
39	Salado Creek Flow Station	0.42	0.48	0.28	0.09	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	0.08	0.22	0.02	0.03	72
45	Volta Wasteway at Ingomar Grade	0.11	0.16	0.07	0.03	11
46	Mud Slough at Gun Club Road	0.36	0.77	0.13	0.18	11
47	Delta-Mendota Cal Hwy 140	0.23	0.44	0.11	0.18	3
48	FC-5 Grasslands Area Farmers	0.20	0.32	0.07	0.18	2
49	PE-14-Grasslands Area Farmers	0.17	0.19	0.16	0.02	2
50	San Luis Drain Site A (Check 18)	0.13	0.15	0.11	0.01	4
51	Arroyo Cal at Hwy 152	0.22	0.29	0.15	0.10	2
52	Salt Slough at Sand Dam	0.50	0.84	0.29	0.29	3
53	Salt Slough at Wolfsen Road	0.31	0.95	0.14	0.15	30
57	Ramona Lake Drain at Levee	0.42	0.85	0.15	0.18	28
59	SJR Laird Park	0.24	0.38	0.15	0.07	22
60	Moffit 1 South	0.17	0.43	0.03	0.12	19
61	Deadman's Slough	0.27	0.86	0.03	0.19	24
62	Mallard Slough	0.46	2.83	0.08	0.66	23
63	Inlet C Canal	0.28	1.13	0.04	0.22	27

DO site number	Site name	Average of UC Davis Total P mg/L	Max of UC Davis Total P mg/L	Min of UC Davis Total P mg/L	StdDev of UC Davis Total P mg/L	Count of UC Davis Total P mg/L
64	Moran Drain	0.18	0.23	0.15	0.03	6
65	Spanish Grant Drain	0.27	0.36	0.15	0.08	7
66	ESWD Maze Blv. Drain	0.18	0.35	0.06	0.13	4
67	Newman Wasteway at Brazo Road	0.29	0.52	0.19	0.12	7
68	S. Lake Basin	0.53	1.41	0.20	0.50	5
69	Santa Fe Canal	0.30	0.30	0.30	na	1
80	South Marsh 1 Inlet	0.18	0.39	0.07	0.09	18
81	South Marsh 1 Outlet	0.20	1.12	0.03	0.26	20
82	South Marsh 3 Inlet	0.41	1.71	0.13	0.34	25
83	South Marsh 3 Outlet	0.41	1.50	0.11	0.32	28
84	SJR Garwood Bridge	0.18	0.18	0.18	na	1
86	Ramona Drain Apple Ave	0.51	0.96	0.16	0.24	9
87	Ramona Drain Prune Ave	0.49	0.74	0.28	0.23	3
88	Ramona Drain Apricot Ave	0.51	0.97	0.10	0.28	9
89	Ramona Drain Pomelo Ave	0.63	0.98	0.43	0.30	3
90	Ramona Drain Almond Ave	0.27	0.27	0.27	na	1
91	Paradise Drain Prune Ave	0.23	0.23	0.23	na	1
92	Paradise Drain Apricot Ave	0.39	0.66	0.15	0.18	7
93	Paradise Drain Pomelo Ave	0.56	0.89	0.38	0.29	3
94	Paradise Drain Almond Ave	0.47	0.83	0.14	0.20	7
95	Ramona Lake Entrance	0.45	0.83	0.25	0.18	15
96	WPF-VD-1	0.76	0.76	0.76	na	1
97	WPF-VD-2	0.80	0.80	0.80	na	1
98	WPF-VD-3	2.28	2.28	2.28	na	1
101	WPF-UD-IN	0.44	0.70	0.18	0.37	2
102	WPF-UD-OUT	0.51	0.77	0.26	0.36	2
103	SLD Check 18	0.12	0.14	0.11	0.02	2
104	SLD Check 16	0.10	0.12	0.08	0.03	2
105	SLD Check 15	0.12	0.15	0.08	0.05	2
106	SLD Check 14	0.13	0.16	0.10	0.04	2
107	SLD Check 13	0.12	0.14	0.11	0.02	2
108	SLD Check 12	0.15	0.16	0.13	0.02	2
109	SLD Check 11	0.13	0.14	0.11	0.02	2
110	SLD Check 10	0.10	0.11	0.08	0.02	2
111	SLD Check 9	0.10	0.12	0.08	0.03	2
112	SLD Check 8	0.12	0.14	0.11	0.02	2
113	SLD Check 7	0.11	0.13	0.10	0.02	2
114	SLD Check 6	0.09	0.11	0.07	0.03	2
115	SLD Check 5	0.07	0.08	0.06	0.01	2
116	SLD Check 4	0.08	0.10	0.07	0.02	2
117	SLD Check 3	0.07	0.08	0.06	0.01	2
118	SLD Check 2	0.05	0.07	0.04	0.02	2
119	SLD Check 1	0.06	0.06	0.06	0.00	2
120	South Marsh 1 Intermediary	0.17	0.29	0.05	0.07	11
121	South Marsh 1 East	0.36	1.62	0.03	0.51	10
122	South Marsh 1 West	0.29	0.54	0.04	0.16	9
123	Ramona Lake NW Quad	0.54	0.54	0.54	na	1
124	Ramona Lake NE Quad	0.24	0.24	0.24	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	0.50	0.53	0.44	0.05	3
130	Marshall Rd Reservoir Entrance	0.31	0.48	0.15	0.12	7
131	Marshall Rd Reservoir Exit	0.26	0.46	0.12	0.11	7
132	Marshall Rd Res Pond 1W	0.26	0.46	0.16	0.12	5
133	Marshall Rd Res Pond 2E	0.26	0.46	0.14	0.12	5
135	Modesto ID Main Drain Spill	0.29	0.43	0.14	0.12	6

Phosphate (PO4-P) (analyzed by UC Davis)

DO site number	Site name	Average of UC Davis PO4-P, mg/L	Max of UC Davis PO4-P, mg/L	Min of UC Davis PO4-P, mg/L	StdDev of UC Davis PO4-P, mg/L	Count of UC Davis PO4-P, mg/L
1	SJR at Channel Point	0.092	0.099	0.084	0.010	2
2	SJR at Dos Reis Lathrop	0.052	0.052	0.052	0.000	2
3	SJR at Old River	0.059	0.062	0.057	0.004	2
4	SJR at Mossdale	0.095	0.194	0.005	0.041	65
5	SJR at Vernalis	0.086	0.198	0.005	0.034	72
6	SJR at Maze	0.114	0.201	0.052	0.035	69
7	SJR at Patterson	0.205	0.450	0.045	0.091	74
8	SJR at Crows Landing	0.084	0.213	0.032	0.030	80
9	SJR at Fremont Ford	0.133	0.189	0.091	0.038	5
10	SJR at Lander Avenue	0.084	0.347	0.005	0.055	83
11	French Camp Slough	0.113	0.157	0.069	0.031	7
12	Stanislaus River at Caswell Park	0.040	0.206	0.005	0.035	67
13	Stanislaus River at Ripon	0.044	0.044	0.044	na	1
14	Tuolumne River at Shiloh Bridge	0.062	0.173	0.000	0.050	68
16	Merced River at River Road	0.027	0.309	0.005	0.039	66
17	Merced River near Stevenson	0.011	0.011	0.011	na	1
18	Mud Slough near Gustine	0.074	0.318	0.000	0.087	75
19	Salt Slough at Lander Avenue	0.145	0.677	0.025	0.092	103
20	Los Banos Creek at Highway 140	0.325	1.026	0.071	0.212	66
21	Orestimba Creek at River Road	0.110	0.311	0.005	0.066	58
22	Modesto ID Lateral 4 to SJR	0.029	0.048	0.012	0.014	6
23	Modesto ID Lateral 5 to Tuolumne	0.099	1.053	0.001	0.217	29
24	Modesto ID Lateral 6 to Stanislaus River	0.294	0.381	0.206	0.123	2
25	MID Main Drain to Stan. R. via Miller Lake	0.400	5.307	0.014	0.852	40
26	Turlock ID Highline Spill	0.014	0.021	0.008	0.009	2
27	Turlock ID Lateral 2 to SJR	0.007	0.009	0.005	0.002	3
28	Turlock ID Westport Drain Flow Station	0.231	0.872	0.011	0.188	50
29	Turlock ID Harding Drain	1.793	4.740	0.064	1.208	65
30	Turlock ID Lateral 6 & 7 at Levee	0.525	1.173	0.292	0.184	35
31	BCID - New Jerusalem Drain	0.042	0.049	0.036	0.005	9
32	EI Solyo WD - Grayson Drain	0.172	0.231	0.088	0.054	5
33	Hospital Creek	0.265	0.740	0.042	0.222	17
34	Ingram Creek Flow Station	0.161	0.333	0.021	0.069	44
35	Westley Wasteway Flow Station	0.113	0.185	0.019	0.059	7
36	Del Puerto Creek Flow Station	0.204	0.711	0.024	0.141	58
38	Marshall Road Drain	0.244	0.501	0.108	0.130	8
39	Salado Creek Flow Station	0.150	0.238	0.048	0.080	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	0.009	0.105	0.000	0.019	56
45	Volta Wasteway at Ingomar Grade	0.071	0.104	0.028	0.025	11
46	Mud Slough at Gun Club Road	0.157	0.323	0.040	0.083	11
47	Delta-Mendota Cal Hwy 140	0.137	0.235	0.062	0.089	3
48	FC-5 Grasslands Area Farmers	0.018	0.029	0.008	0.015	2
49	PE-14-Grasslands Area Farmers	0.018	0.035	0.000	0.025	2
50	San Luis Drain Site A (Check 18)	0.009	0.016	0.005	0.005	4
51	Arroyo Cal at Hwy 152	0.098	0.124	0.071	0.037	2
52	Salt Slough at Sand Dam	0.347	0.662	0.121	0.281	3
53	Salt Slough at Wolfsen Road	0.126	0.704	0.039	0.122	30
57	Ramona Lake Drain at Levee	0.104	0.418	0.005	0.095	27
59	SJR Laird Park	0.125	0.260	0.000	0.064	22
60	Moffit 1 South	0.094	0.207	0.020	0.057	19
61	Deadman's Slough	0.133	0.446	0.015	0.111	24
62	Mallard Slough	0.308	2.508	0.016	0.584	23
63	Inlet C Canal	0.145	1.036	0.027	0.198	27

DO site number	Site name	Average of UC Davis PO4-P, mg/L	Max of UC Davis PO4-P, mg/L	Min of UC Davis PO4-P, mg/L	StdDev of UC Davis PO4-P, mg/L	Count of UC Davis PO4-P, mg/L
64	Moran Drain	0.074	0.134	0.039	0.035	6
65	Spanish Grant Drain	0.148	0.225	0.086	0.050	7
66	ESWD Maze Blv. Drain	0.067	0.124	0.038	0.039	4
67	Newman Wasteway at Brazo Road	0.131	0.213	0.060	0.055	7
68	S. Lake Basin	0.380	1.120	0.061	0.427	5
69	Santa Fe Canal	0.173	0.173	0.173	na	1
80	South Marsh 1 Inlet	0.089	0.209	0.024	0.049	17
81	South Marsh 1 Outlet	0.115	0.795	0.010	0.186	20
82	South Marsh 3 Inlet	0.249	1.305	0.069	0.268	25
83	South Marsh 3 Outlet	0.285	1.238	0.031	0.271	28
84	SJR Garwood Bridge	0.081	0.081	0.081	na	1
86	Ramona Drain Apple Ave	0.290	0.593	0.101	0.142	9
87	Ramona Drain Prune Ave	0.341	0.512	0.214	0.154	3
88	Ramona Drain Apricot Ave	0.196	0.354	0.052	0.079	9
89	Ramona Drain Pomelo Ave	0.210	0.316	0.140	0.094	3
90	Ramona Drain Almond Ave	0.165	0.165	0.165	na	1
91	Paradise Drain Prune Ave	0.079	0.079	0.079	na	1
92	Paradise Drain Apricot Ave	0.244	0.477	0.095	0.138	8
93	Paradise Drain Pomelo Ave	0.313	0.568	0.123	0.229	3
94	Paradise Drain Almond Ave	0.231	0.603	0.104	0.174	7
95	Ramona Lake Entrance	0.233	0.555	0.081	0.140	15
96	WPF-VD-1	0.173	0.173	0.173	na	1
97	WPF-VD-2	0.223	0.223	0.223	na	1
98	WPF-VD-3	1.339	1.339	1.339	na	1
101	WPF-UD-IN	0.159	0.160	0.158	0.002	2
102	WPF-UD-OUT	0.191	0.214	0.169	0.032	2
103	SLD Check 18	0.008	0.012	0.005	0.005	2
104	SLD Check 16	0.005	0.006	0.005	0.000	2
105	SLD Check 15	0.008	0.008	0.008	na	1
106	SLD Check 14	0.006	0.006	0.006	na	1
107	SLD Check 13	0.005	0.005	0.005	na	1
108	SLD Check 12	0.005	0.005	0.005	na	1
109	SLD Check 11	0.005	0.005	0.005	na	1
110	SLD Check 10	0.005	0.005	0.005	na	1
111	SLD Check 9	0.005	0.005	0.005	na	1
112	SLD Check 8	0.005	0.005	0.005	na	1
113	SLD Check 7	0.005	0.005	0.005	na	1
114	SLD Check 6	0.005	0.005	0.005	na	1
115	SLD Check 5	0.005	0.005	0.005	na	1
116	SLD Check 4	0.005	0.005	0.005	na	1
117	SLD Check 3	0.005	0.005	0.005	na	1
118	SLD Check 2	0.005	0.005	0.005	na	1
119	SLD Check 1	0.005	0.005	0.005	na	1
120	South Marsh 1 Intermediary	0.098	0.177	0.019	0.053	11
121	South Marsh 1 East	0.171	0.812	0.015	0.233	10
122	South Marsh 1 West	0.114	0.339	0.011	0.118	9
123	Ramona Lake NW Quad	0.136	0.136	0.136	na	1
124	Ramona Lake NE Quad	0.168	0.168	0.168	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	0.329	0.400	0.246	0.078	3
130	Marshall Rd Reservoir Entrance	0.174	0.236	0.132	0.038	7
131	Marshall Rd Reservoir Exit	0.110	0.195	0.060	0.050	7
132	Marshall Rd Res Pond 1W	0.144	0.203	0.095	0.039	5
133	Marshall Rd Res Pond 2E	0.142	0.201	0.098	0.037	5
135	Modesto ID Main Drain Spill	0.186	0.228	0.084	0.058	6

Total Fe

DO site number	Site name	Average of Total Fe mg/L	Max of Total Fe mg/L	Min of Total Fe mg/L	StdDev of Total Fe mg/L	Count of Total Fe mg/L
1	SJR at Channel Point	0.40	0.48	0.32	0.11	2
2	SJR at Dos Reis Lathrop	0.40	0.55	0.25	0.21	2
3	SJR at Old River	0.27	0.52	0.03	0.34	2
4	SJR at Mossdale	0.38	0.96	0.03	0.19	64
5	SJR at Vernalis	0.41	1.02	0.07	0.18	70
6	SJR at Maze	0.45	1.23	0.08	0.24	68
7	SJR at Patterson	0.50	1.29	0.12	0.25	72
8	SJR at Crows Landing	0.45	1.00	0.12	0.18	78
9	SJR at Fremont Ford	0.48	1.10	0.15	0.42	4
10	SJR at Lander Avenue	0.35	1.59	0.00	0.28	81
11	French Camp Slough	0.39	1.25	0.14	0.39	7
12	Stanislaus River at Caswell Park	0.17	0.56	0.06	0.07	65
13	Stanislaus River at Ripon	0.16	0.16	0.16	na	1
14	Tuolumne River at Shiloh Bridge	0.15	0.55	0.02	0.10	66
16	Merced River at River Road	0.26	1.41	0.03	0.19	65
17	Merced River near Stevenson	0.26	0.26	0.26	na	1
18	Mud Slough near Gustine	0.42	1.08	0.00	0.25	74
19	Salt Slough at Lander Avenue	0.94	2.11	0.00	0.43	101
20	Los Banos Creek at Highway 140	0.94	2.39	0.03	0.59	65
21	Orestimba Creek at River Road	1.36	9.48	0.25	1.50	58
22	Modesto ID Lateral 4 to SJR	0.06	0.10	0.00	0.04	6
23	Modesto ID Lateral 5 to Tuolumne	0.11	0.62	0.00	0.16	29
24	Modesto ID Lateral 6 to Stanislaus River	0.17	0.24	0.10	0.09	2
25	MID Main Drain to Stan. R. via Miller Lake	0.33	1.56	0.03	0.31	38
26	Turlock ID Highline Spill	0.09	0.10	0.09	0.01	2
27	Turlock ID Lateral 2 to SJR	0.07	0.09	0.02	0.03	4
28	Turlock ID Westport Drain Flow Station	0.10	0.47	0.00	0.11	49
29	Turlock ID Harding Drain	0.12	0.67	0.00	0.13	64
30	Turlock ID Lateral 6 & 7 at Levee	0.05	0.25	0.00	0.06	34
31	BCID - New Jerusalem Drain	0.04	0.17	0.00	0.05	9
32	EI Solyo WD - Grayson Drain	2.46	7.59	0.66	2.93	5
33	Hospital Creek	6.98	60.27	0.05	14.92	17
34	Ingram Creek Flow Station	1.58	11.43	0.00	2.14	43
35	Westley Wasteway Flow Station	1.87	6.51	0.11	2.34	7
36	Del Puerto Creek Flow Station	0.95	6.43	0.04	1.24	57
38	Marshall Road Drain	1.22	3.78	0.21	1.20	8
39	Salado Creek Flow Station	1.00	2.65	0.23	1.13	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	0.15	0.54	0.00	0.14	72
45	Volta Wasteway at Ingomar Grade	0.18	0.35	0.00	0.13	11
46	Mud Slough at Gun Club Road	0.44	0.69	0.08	0.16	11
47	Delta-Mendota Cal Hwy 140	0.15	0.20	0.12	0.04	3
48	FC-5 Grasslands Area Farmers	1.23	1.84	0.62	0.86	2
49	PE-14-Grasslands Area Farmers	0.37	0.73	0.02	0.51	2
50	San Luis Drain Site A (Check 18)	0.88	1.66	0.50	0.53	4
51	Arroyo Cal at Hwy 152	0.97	0.98	0.97	0.01	2
52	Salt Slough at Sand Dam	0.76	0.87	0.66	0.11	3
53	Salt Slough at Wolfsen Road	1.02	1.95	0.27	0.40	30
57	Ramona Lake Drain at Levee	0.96	2.30	0.09	0.59	29
59	SJR Laird Park	0.52	1.28	0.13	0.29	22
60	Moffit 1 South	0.12	0.42	0.02	0.10	19
61	Deadman's Slough	0.45	1.44	0.00	0.41	24
62	Mallard Slough	0.71	2.39	0.00	0.67	23
63	Inlet C Canal	0.58	1.11	0.00	0.25	27

DO site number	Site name	Average of Total Fe mg/L	Max of Total Fe mg/L	Min of Total Fe mg/L	StdDev of Total Fe mg/L	Count of Total Fe mg/L
64	Moran Drain	1.24	2.08	0.43	0.60	6
65	Spanish Grant Drain	1.14	2.99	0.35	0.89	7
66	ESWD Maze Blv. Drain	3.23	12.72	0.00	6.33	4
67	Newman Wasteway at Brazo Road	0.83	1.33	0.19	0.47	7
68	S. Lake Basin	0.57	1.11	0.34	0.31	5
69	Santa Fe Canal	0.60	0.60	0.60	na	1
80	South Marsh 1 Inlet	0.28	0.49	0.00	0.13	18
81	South Marsh 1 Outlet	0.11	0.80	0.01	0.17	20
82	South Marsh 3 Inlet	0.39	1.33	0.05	0.36	25
83	South Marsh 3 Outlet	0.35	0.98	0.03	0.26	28
84	SJR Garwood Bridge	0.19	0.19	0.19	na	1
86	Ramona Drain Apple Ave	0.58	1.87	0.06	0.55	9
87	Ramona Drain Prune Ave	0.37	0.50	0.18	0.17	3
88	Ramona Drain Apricot Ave	0.61	1.30	0.22	0.41	9
89	Ramona Drain Pomelo Ave	1.40	1.90	1.14	0.43	3
90	Ramona Drain Almond Ave	0.35	0.35	0.35	na	1
91	Paradise Drain Prune Ave	0.19	0.19	0.19	na	1
92	Paradise Drain Apricot Ave	0.08	0.14	0.00	0.06	7
93	Paradise Drain Pomelo Ave	0.60	1.02	0.36	0.36	3
94	Paradise Drain Almond Ave	0.29	0.66	0.15	0.18	7
95	Ramona Lake Entrance	0.93	1.61	0.09	0.47	16
96	WPF-VD-1	2.30	2.30	2.30	na	1
97	WPF-VD-2	1.52	1.52	1.52	na	1
98	WPF-VD-3	0.47	0.47	0.47	na	1
101	WPF-UD-IN	0.85	1.62	0.09	1.08	2
102	WPF-UD-OUT	1.29	2.32	0.27	1.45	2
103	SLD Check 18	0.67	0.75	0.58	0.12	2
104	SLD Check 16	0.88	1.31	0.45	0.61	2
105	SLD Check 15	0.67	0.89	0.45	0.31	2
106	SLD Check 14	1.03	1.60	0.46	0.80	2
107	SLD Check 13	0.65	0.78	0.52	0.18	2
108	SLD Check 12	0.54	0.54	0.53	0.01	2
109	SLD Check 11	0.61	0.75	0.47	0.19	2
110	SLD Check 10	0.51	0.61	0.41	0.15	2
111	SLD Check 9	0.54	0.61	0.47	0.10	2
112	SLD Check 8	0.55	0.72	0.37	0.24	2
113	SLD Check 7	0.47	0.63	0.30	0.23	2
114	SLD Check 6	0.45	0.59	0.32	0.19	2
115	SLD Check 5	0.28	0.40	0.17	0.16	2
116	SLD Check 4	0.35	0.43	0.28	0.11	2
117	SLD Check 3	0.22	0.32	0.13	0.14	2
118	SLD Check 2	0.19	0.23	0.16	0.05	2
119	SLD Check 1	0.20	0.24	0.17	0.05	2
120	South Marsh 1 Intermediary	0.28	0.60	0.02	0.16	11
121	South Marsh 1 East	0.24	0.83	0.05	0.25	10
122	South Marsh 1 West	0.17	0.63	0.00	0.21	9
123	Ramona Lake NW Quad	0.79	0.88	0.70	0.13	2
124	Ramona Lake NE Quad	0.73	0.79	0.67	0.09	2
125	Ramona Lake SW Quad	0.88	0.88	0.88	na	1
126	Ramona Lake SE Quad	1.21	1.21	1.21	na	1
129	Hollow Tree drain	0.71	1.04	0.51	0.29	3
130	Marshall Rd Reservoir Entrance	1.05	2.17	0.38	0.70	7
131	Marshall Rd Reservoir Exit	0.51	0.80	0.11	0.26	7
132	Marshall Rd Res Pond 1W	0.64	1.34	0.33	0.41	5
133	Marshall Rd Res Pond 2E	0.78	1.88	0.33	0.63	5
135	Modesto ID Main Drain Spill	0.14	0.25	0.00	0.10	6

Na (mg/L)

DO site number	Site name	Average of Na mg/L	Max of Na mg/L	Min of Na mg/L	StdDev of Na mg/L	Count of Na mg/L
1	SJR at Channel Point	55.61	55.78	55.43	0.25	2
2	SJR at Dos Reis Lathrop	60.00	62.43	57.57	3.44	2
3	SJR at Old River	62.40	64.91	59.89	3.55	2
4	SJR at Mossdale	57.89	102.16	9.22	28.17	65
5	SJR at Vernalis	57.82	99.97	8.50	27.31	73
6	SJR at Maze	81.56	145.12	9.53	40.57	70
7	SJR at Patterson	118.50	216.36	11.36	54.66	75
8	SJR at Crows Landing	121.66	235.20	13.65	54.63	80
9	SJR at Fremont Ford	187.41	248.91	124.31	45.77	5
10	SJR at Lander Avenue	130.76	280.10	4.00	78.01	83
11	French Camp Slough	53.58	92.19	5.49	35.83	7
12	Stanislaus River at Caswell Park	4.74	11.22	2.70	1.59	67
13	Stanislaus River at Ripon	5.94	5.94	5.94	na	1
14	Tuolumne River at Shiloh Bridge	11.26	26.44	2.22	7.12	68
16	Merced River at River Road	13.75	52.45	2.05	11.96	67
17	Merced River near Stevenson	2.23	2.23	2.23	na	1
18	Mud Slough near Gustine	416.61	762.90	12.57	174.69	77
19	Salt Slough at Lander Avenue	175.38	394.66	91.76	56.12	103
20	Los Banos Creek at Highway 140	202.59	560.55	53.01	105.09	66
21	Orestimba Creek at River Road	62.54	160.40	13.25	25.80	58
22	Modesto ID Lateral 4 to SJR	12.37	21.62	2.27	8.92	6
23	Modesto ID Lateral 5 to Tuolumne	12.18	66.45	1.80	16.08	29
24	Modesto ID Lateral 6 to Stanislaus River	3.71	3.91	3.52	0.28	2
25	MID Main Drain to Stan. R. via Miller Lake	29.97	158.11	0.00	26.34	42
26	Turlock ID Highline Spill	2.10	2.27	1.93	0.24	2
27	Turlock ID Lateral 2 to SJR	8.16	21.25	0.00	9.29	4
28	Turlock ID Westport Drain Flow Station	69.54	145.78	12.78	35.65	50
29	Turlock ID Harding Drain	84.61	157.82	16.03	32.78	64
30	Turlock ID Lateral 6 & 7 at Levee	57.51	125.02	25.56	22.72	35
31	BCID - New Jerusalem Drain	320.80	345.72	298.33	17.19	8
32	EI Solyo WD - Grayson Drain	115.24	169.79	46.56	47.25	5
33	Hospital Creek	49.15	87.18	14.57	25.32	17
34	Ingram Creek Flow Station	116.94	277.96	23.96	55.77	44
35	Westley Wasteway Flow Station	73.01	100.94	60.73	14.47	7
36	Del Puerto Creek Flow Station	101.92	183.56	33.35	39.26	58
38	Marshall Road Drain	97.47	168.21	52.14	44.50	8
39	Salado Creek Flow Station	162.83	183.83	128.25	24.28	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	691.47	1043.90	55.07	148.85	73
45	Volta Wasteway at Ingomar Grade	114.94	218.04	35.01	68.11	11
46	Mud Slough at Gun Club Road	311.52	608.20	102.59	176.95	11
47	Delta-Mendota Cal Hwy 140	64.87	78.38	44.62	17.86	3
48	FC-5 Grasslands Area Farmers	879.10	924.65	833.55	64.42	2
49	PE-14-Grasslands Area Farmers	892.80	984.05	801.55	129.05	2
50	San Luis Drain Site A (Check 18)	748.14	982.45	625.90	163.48	4
51	Arroyo Cal at Hwy 152	142.43	149.31	135.54	9.74	2
52	Salt Slough at Sand Dam	102.49	125.97	83.97	21.43	3
53	Salt Slough at Wolfsen Road	181.06	303.91	104.69	53.83	30
57	Ramona Lake Drain at Levee	172.76	262.48	110.81	39.61	29
59	SJR Laird Park	119.54	801.55	13.36	157.14	22
60	Moffit 1 South	127.42	230.85	63.22	54.87	19
61	Deadman's Slough	161.65	289.84	67.82	78.81	23
62	Mallard Slough	229.34	913.80	97.14	179.80	22
63	Inlet C Canal	87.62	187.68	39.14	40.94	27

DO site number	Site name	Average of Na mg/L	Max of Na mg/L	Min of Na mg/L	StdDev of Na mg/L	Count of Na mg/L
64	Moran Drain	67.09	83.03	47.50	15.67	6
65	Spanish Grant Drain	112.93	158.76	80.83	33.52	7
66	ESWD Maze Blv. Drain	55.46	68.44	44.70	9.98	4
67	Newman Wasteway at Brazo Road	141.83	216.93	83.18	50.35	7
68	S. Lake Basin	339.71	536.55	64.90	220.25	5
69	Santa Fe Canal	41.24	41.24	41.24	na	1
80	South Marsh 1 Inlet	80.11	129.84	39.63	30.98	17
81	South Marsh 1 Outlet	80.22	133.32	43.64	25.41	19
82	South Marsh 3 Inlet	178.01	281.02	45.51	64.69	23
83	South Marsh 3 Outlet	180.99	301.71	104.30	54.96	26
84	SJR Garwood Bridge	63.49	63.49	63.49	na	1
86	Ramona Drain Apple Ave	137.16	179.72	42.59	53.36	9
87	Ramona Drain Prune Ave	87.49	119.42	65.82	28.23	3
88	Ramona Drain Apricot Ave	150.91	240.49	43.33	63.86	9
89	Ramona Drain Pomelo Ave	113.98	151.66	69.16	41.71	3
90	Ramona Drain Almond Ave	119.69	119.69	119.69	na	1
91	Paradise Drain Prune Ave	96.38	155.73	37.03	83.93	2
92	Paradise Drain Apricot Ave	206.08	505.90	105.90	135.11	7
93	Paradise Drain Pomelo Ave	255.51	485.80	105.37	202.49	3
94	Paradise Drain Almond Ave	207.51	477.90	103.54	123.29	7
95	Ramona Lake Entrance	190.01	276.26	112.05	41.30	16
96	WPF-VD-1	36.20	36.20	36.20	na	1
97	WPF-VD-2	38.14	38.14	38.14	na	1
98	WPF-VD-3	44.67	44.67	44.67	na	1
101	WPF-UD-IN	77.99	119.74	36.25	59.03	2
102	WPF-UD-OUT	76.85	116.17	37.54	55.60	2
103	SLD Check 18	673.28	737.95	608.60	91.46	2
104	SLD Check 16	703.60	751.35	655.85	67.53	2
105	SLD Check 15	719.85	773.25	666.45	75.52	2
106	SLD Check 14	719.50	784.45	654.55	91.85	2
107	SLD Check 13	725.45	802.35	648.55	108.75	2
108	SLD Check 12	723.85	777.90	669.80	76.44	2
109	SLD Check 11	718.00	798.55	637.45	113.91	2
110	SLD Check 10	725.20	781.35	669.05	79.41	2
111	SLD Check 9	716.78	728.55	705.00	16.65	2
112	SLD Check 8	696.70	714.95	678.45	25.81	2
113	SLD Check 7	680.00	690.15	669.85	14.35	2
114	SLD Check 6	683.83	703.75	663.90	28.18	2
115	SLD Check 5	713.25	727.50	699.00	20.15	2
116	SLD Check 4	711.18	747.50	674.85	51.37	2
117	SLD Check 3	746.13	759.25	733.00	18.56	2
118	SLD Check 2	727.40	734.00	720.80	9.33	2
119	SLD Check 1	725.20	735.35	715.05	14.35	2
120	South Marsh 1 Intermediary	77.16	129.66	40.39	33.69	11
121	South Marsh 1 East	80.40	131.64	42.09	36.25	10
122	South Marsh 1 West	96.41	158.40	48.04	33.87	9
123	Ramona Lake NW Quad	212.37	212.37	212.37	na	1
124	Ramona Lake NE Quad	172.70	172.70	172.70	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	681.93	734.55	642.80	47.34	3
130	Marshall Rd Reservoir Entrance	102.05	157.37	50.72	38.41	7
131	Marshall Rd Reservoir Exit	118.86	151.26	87.16	24.09	7
132	Marshall Rd Res Pond 1W	94.09	136.39	58.04	32.89	5
133	Marshall Rd Res Pond 2E	97.69	134.76	68.68	29.22	5
135	Modesto ID Main Drain Spill	18.89	33.69	9.55	8.48	6

K (mg/L)

DO site number	Site name	Average of K mg/L	Max of K mg/L	Min of K mg/L	StdDev of K mg/L	Count of K mg/L
1	SJR at Channel Point	3.36	3.52	3.20	0.23	2
2	SJR at Dos Reis Lathrop	2.84	3.23	2.44	0.56	2
3	SJR at Old River	2.98	3.39	2.57	0.58	2
4	SJR at Mossdale	2.68	5.16	1.06	1.03	65
5	SJR at Vernalis	2.59	5.15	1.05	0.96	73
6	SJR at Maze	3.41	7.52	1.07	1.51	70
7	SJR at Patterson	4.59	9.28	1.19	1.98	75
8	SJR at Crows Landing	3.91	7.90	1.08	1.56	80
9	SJR at Fremont Ford	4.97	5.10	4.79	0.13	5
10	SJR at Lander Avenue	4.56	9.91	0.65	2.15	83
11	French Camp Slough	3.00	3.61	1.53	0.75	7
12	Stanislaus River at Caswell Park	1.10	2.18	0.67	0.31	67
13	Stanislaus River at Ripon	1.15	1.15	1.15	na	1
14	Tuolumne River at Shiloh Bridge	1.61	11.01	0.45	1.46	68
16	Merced River at River Road	1.18	3.29	0.37	0.58	67
17	Merced River near Stevenson	0.49	0.49	0.49	na	1
18	Mud Slough near Gustine	8.58	14.30	1.17	2.31	77
19	Salt Slough at Lander Avenue	5.93	14.74	3.12	1.61	103
20	Los Banos Creek at Highway 140	8.34	17.33	3.60	2.93	66
21	Orestimba Creek at River Road	3.48	9.31	1.57	1.42	58
22	Modesto ID Lateral 4 to SJR	1.37	2.90	0.65	0.82	6
23	Modesto ID Lateral 5 to Tuolumne	1.57	5.64	0.36	1.41	29
24	Modesto ID Lateral 6 to Stanislaus River	2.39	2.67	2.12	0.39	2
25	MID Main Drain to Stan. R. via Miller Lake	5.28	18.01	0.00	3.43	42
26	Turlock ID Highline Spill	0.57	0.68	0.46	0.15	2
27	Turlock ID Lateral 2 to SJR	0.61	1.07	0.00	0.46	4
28	Turlock ID Westport Drain Flow Station	4.61	33.08	1.00	4.48	50
29	Turlock ID Harding Drain	11.80	29.36	1.28	6.23	64
30	Turlock ID Lateral 6 & 7 at Levee	5.70	12.46	3.12	2.35	35
31	BCID - New Jerusalem Drain	4.07	11.34	0.00	3.94	8
32	EI Solyo WD - Grayson Drain	6.77	8.22	5.31	1.05	5
33	Hospital Creek	4.13	7.65	1.93	1.81	17
34	Ingram Creek Flow Station	4.45	11.07	1.90	1.86	44
35	Westley Wasteway Flow Station	3.33	5.05	2.37	0.92	7
36	Del Puerto Creek Flow Station	4.41	9.98	1.36	2.02	58
38	Marshall Road Drain	4.54	7.18	1.98	1.63	8
39	Salado Creek Flow Station	9.56	14.11	6.48	3.25	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	11.50	27.80	3.34	3.85	73
45	Volta Wasteway at Ingomar Grade	3.83	7.83	2.07	1.63	11
46	Mud Slough at Gun Club Road	9.43	22.24	5.69	4.93	11
47	Delta-Mendota Cal Hwy 140	3.71	4.99	2.56	1.22	3
48	FC-5 Grasslands Area Farmers	na	0.00	0.00	na	2
49	PE-14-Grasslands Area Farmers	na	0.00	0.00	na	2
50	San Luis Drain Site A (Check 18)	11.30	12.25	10.35	1.34	4
51	Arroyo Cal at Hwy 152	5.81	5.84	5.78	0.04	2
52	Salt Slough at Sand Dam	4.66	5.97	3.07	1.47	3
53	Salt Slough at Wolfsen Road	5.80	8.15	3.87	1.12	30
57	Ramona Lake Drain at Levee	6.02	10.94	3.80	1.65	29
59	SJR Laird Park	3.51	10.50	0.56	1.87	22
60	Moffit 1 South	5.95	8.32	3.45	1.18	19
61	Deadman's Slough	6.77	13.69	3.72	2.58	23
62	Mallard Slough	10.63	54.70	3.67	11.57	22
63	Inlet C Canal	3.64	6.86	2.08	1.17	27

DO site number	Site name	Average of K mg/L	Max of K mg/L	Min of K mg/L	StdDev of K mg/L	Count of K mg/L
64	Moran Drain	3.53	4.82	1.96	1.02	6
65	Spanish Grant Drain	4.46	5.94	3.09	1.05	7
66	ESWD Maze Blv. Drain	3.32	4.35	2.12	0.98	4
67	Newman Wasteway at Brazo Road	5.35	9.19	2.71	2.10	7
68	S. Lake Basin	7.97	11.57	2.40	3.78	5
69	Santa Fe Canal	2.27	2.27	2.27	na	1
80	South Marsh 1 Inlet	3.50	6.66	2.08	1.23	17
81	South Marsh 1 Outlet	4.78	7.76	2.86	1.42	19
82	South Marsh 3 Inlet	6.52	12.58	2.61	2.53	23
83	South Marsh 3 Outlet	6.40	10.40	4.17	1.64	26
84	SJR Garwood Bridge	4.39	4.39	4.39	na	1
86	Ramona Drain Apple Ave	7.67	10.75	1.32	2.74	9
87	Ramona Drain Prune Ave	5.97	8.00	4.52	1.81	3
88	Ramona Drain Apricot Ave	8.00	10.67	3.15	2.85	9
89	Ramona Drain Pomelo Ave	7.78	11.74	4.35	3.73	3
90	Ramona Drain Almond Ave	7.06	7.06	7.06	na	1
91	Paradise Drain Prune Ave	5.19	8.01	2.37	3.99	2
92	Paradise Drain Apricot Ave	8.63	18.95	5.47	4.66	7
93	Paradise Drain Pomelo Ave	11.46	22.50	5.90	9.56	3
94	Paradise Drain Almond Ave	9.84	25.45	5.71	6.96	7
95	Ramona Lake Entrance	6.21	9.45	4.19	1.48	16
96	WPF-VD-1	3.87	3.87	3.87	na	1
97	WPF-VD-2	6.23	6.23	6.23	na	1
98	WPF-VD-3	20.68	20.68	20.68	na	1
101	WPF-UD-IN	4.63	5.40	3.86	1.09	2
102	WPF-UD-OUT	5.44	6.89	3.99	2.05	2
103	SLD Check 18	10.93	11.10	10.75	0.25	2
104	SLD Check 16	11.18	12.60	9.75	2.02	2
105	SLD Check 15	11.48	12.05	10.90	0.81	2
106	SLD Check 14	12.93	13.05	12.80	0.18	2
107	SLD Check 13	12.65	13.00	12.30	0.49	2
108	SLD Check 12	12.10	12.10	12.10	0.00	2
109	SLD Check 11	12.65	12.80	12.50	0.21	2
110	SLD Check 10	13.05	14.50	11.60	2.05	2
111	SLD Check 9	11.67	11.68	11.65	0.02	2
112	SLD Check 8	12.05	12.45	11.65	0.57	2
113	SLD Check 7	11.35	11.45	11.25	0.14	2
114	SLD Check 6	11.68	11.70	11.65	0.04	2
115	SLD Check 5	12.35	12.90	11.80	0.78	2
116	SLD Check 4	11.53	11.55	11.50	0.04	2
117	SLD Check 3	11.85	12.10	11.60	0.35	2
118	SLD Check 2	12.55	13.35	11.75	1.13	2
119	SLD Check 1	12.80	13.35	12.25	0.78	2
120	South Marsh 1 Intermediary	3.75	6.59	2.43	1.30	11
121	South Marsh 1 East	4.38	6.41	2.52	1.37	10
122	South Marsh 1 West	7.38	10.64	5.25	1.71	9
123	Ramona Lake NW Quad	8.23	8.23	8.23	na	1
124	Ramona Lake NE Quad	5.88	5.88	5.88	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	13.28	14.75	11.90	1.43	3
130	Marshall Rd Reservoir Entrance	4.23	6.20	2.96	1.17	7
131	Marshall Rd Reservoir Exit	4.48	6.09	2.99	0.96	7
132	Marshall Rd Res Pond 1W	3.77	4.94	2.41	0.93	5
133	Marshall Rd Res Pond 2E	3.64	4.65	2.54	0.82	5
135	Modesto ID Main Drain Spill	3.06	4.36	1.96	0.89	6

Mg (mg/L)

DO site number	Site name	Average of Mg mg/L	Max of Mg mg/L	Min of Mg mg/L	StdDev of Mg mg/L	Count of Mg mg/L
1	SJR at Channel Point	12.92	13.50	12.34	0.82	2
2	SJR at Dos Reis Lathrop	14.35	15.28	13.42	1.31	2
3	SJR at Old River	14.62	15.49	13.75	1.23	2
4	SJR at Mossdale	13.96	24.81	3.19	6.45	65
5	SJR at Vernalis	14.27	24.49	3.12	6.47	73
6	SJR at Maze	18.78	33.41	3.16	8.95	70
7	SJR at Patterson	24.06	41.48	3.12	10.48	75
8	SJR at Crows Landing	24.80	45.80	3.06	10.55	80
9	SJR at Fremont Ford	34.11	41.54	23.42	7.48	5
10	SJR at Lander Avenue	20.35	38.73	1.31	10.26	83
11	French Camp Slough	12.84	18.33	3.20	5.58	7
12	Stanislaus River at Caswell Park	3.57	9.71	2.15	1.30	67
13	Stanislaus River at Ripon	3.86	3.86	3.86	na	1
14	Tuolumne River at Shiloh Bridge	4.89	9.86	1.92	2.32	68
16	Merced River at River Road	4.49	13.21	1.40	2.81	67
17	Merced River near Stevenson	1.49	1.49	1.49	na	1
18	Mud Slough near Gustine	66.81	117.65	4.39	23.20	77
19	Salt Slough at Lander Avenue	33.86	66.74	19.28	9.65	103
20	Los Banos Creek at Highway 140	49.60	118.26	16.76	22.80	66
21	Orestimba Creek at River Road	27.37	48.87	5.25	11.26	58
22	Modesto ID Lateral 4 to SJR	6.14	12.18	1.93	4.44	6
23	Modesto ID Lateral 5 to Tuolumne	4.59	20.24	1.19	5.16	29
24	Modesto ID Lateral 6 to Stanislaus River	2.23	2.35	2.12	0.16	2
25	MID Main Drain to Stan. R. via Miller Lake	14.02	37.61	0.00	7.74	42
26	Turlock ID Highline Spill	1.63	1.68	1.57	0.08	2
27	Turlock ID Lateral 2 to SJR	2.70	5.96	0.00	2.49	4
28	Turlock ID Westport Drain Flow Station	16.94	33.44	3.88	7.17	50
29	Turlock ID Harding Drain	12.27	20.46	5.11	3.47	64
30	Turlock ID Lateral 6 & 7 at Levee	15.96	32.95	9.52	4.47	35
31	BCID - New Jerusalem Drain	73.30	82.80	65.33	6.76	8
32	EI Solvo WD - Grayson Drain	30.72	49.85	14.51	13.48	5
33	Hospital Creek	12.99	23.34	4.06	5.41	17
34	Ingram Creek Flow Station	29.22	65.98	6.75	13.55	44
35	Westley Wasteway Flow Station	21.51	39.59	14.36	8.76	7
36	Del Puerto Creek Flow Station	36.18	75.22	8.12	14.95	58
38	Marshall Road Drain	22.51	40.97	11.58	10.35	8
39	Salado Creek Flow Station	35.19	42.21	28.68	5.83	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	110.79	957.25	15.55	102.21	73
45	Volta Wasteway at Ingomar Grade	26.46	48.97	10.32	14.38	11
46	Mud Slough at Gun Club Road	56.06	103.65	24.41	27.74	11
47	Delta-Mendota Cal Hwy 140	14.86	16.69	12.77	1.97	3
48	FC-5 Grasslands Area Farmers	124.28	133.35	115.20	12.83	2
49	PE-14-Grasslands Area Farmers	121.63	125.85	117.40	5.98	2
50	San Luis Drain Site A (Check 18)	101.55	131.45	85.00	20.51	4
51	Arroyo Cal at Hwy 152	30.75	34.73	26.76	5.64	2
52	Salt Slough at Sand Dam	22.24	25.64	19.33	3.19	3
53	Salt Slough at Wolfsen Road	35.64	55.34	21.43	10.00	30
57	Ramona Lake Drain at Levee	40.33	54.35	26.92	7.89	29
59	SJR Laird Park	23.56	114.75	2.34	21.95	22
60	Moffit 1 South	26.38	41.92	15.70	8.54	19
61	Deadman's Slough	31.54	50.55	14.69	12.13	23
62	Mallard Slough	45.59	182.05	21.54	36.69	22
63	Inlet C Canal	19.61	41.41	10.64	7.55	27

DO site number	Site name	Average of Mg mg/L	Max of Mg mg/L	Min of Mg mg/L	StdDev of Mg mg/L	Count of Mg mg/L
64	Moran Drain	25.06	36.07	13.60	10.49	6
65	Spanish Grant Drain	30.54	38.79	20.66	8.63	7
66	ESWD Maze Blv. Drain	14.16	15.15	13.12	1.02	4
67	Newman Wasteway at Brazo Road	48.81	82.68	20.02	21.69	7
68	S. Lake Basin	67.63	108.75	22.95	39.11	5
69	Santa Fe Canal	7.68	7.68	7.68	na	1
80	South Marsh 1 Inlet	18.41	24.87	10.62	5.06	17
81	South Marsh 1 Outlet	18.16	25.53	10.54	4.30	19
82	South Marsh 3 Inlet	21.02	47.00	11.42	7.16	23
83	South Marsh 3 Outlet	20.21	26.58	15.03	4.03	26
84	SJR Garwood Bridge	14.60	14.60	14.60	na	1
86	Ramona Drain Apple Ave	37.00	66.23	15.49	13.66	9
87	Ramona Drain Prune Ave	28.14	36.15	23.29	6.98	3
88	Ramona Drain Apricot Ave	36.09	48.64	14.04	11.74	9
89	Ramona Drain Pomelo Ave	32.79	46.33	20.54	12.94	3
90	Ramona Drain Almond Ave	31.17	31.17	31.17	na	1
91	Paradise Drain Prune Ave	24.11	37.25	10.98	18.57	2
92	Paradise Drain Apricot Ave	43.79	93.90	24.85	23.62	7
93	Paradise Drain Pomelo Ave	54.30	99.90	23.57	40.28	3
94	Paradise Drain Almond Ave	45.76	102.25	22.81	26.35	7
95	Ramona Lake Entrance	42.32	58.57	24.56	8.99	16
96	WPF-VD-1	11.78	11.78	11.78	na	1
97	WPF-VD-2	12.59	12.59	12.59	na	1
98	WPF-VD-3	20.46	20.46	20.46	na	1
101	WPF-UD-IN	25.33	38.96	11.69	19.28	2
102	WPF-UD-OUT	23.66	35.49	11.84	16.72	2
103	SLD Check 18	90.25	97.05	83.45	9.62	2
104	SLD Check 16	93.50	98.65	88.35	7.28	2
105	SLD Check 15	94.80	100.65	88.95	8.27	2
106	SLD Check 14	94.28	100.90	87.65	9.37	2
107	SLD Check 13	94.68	103.35	86.00	12.27	2
108	SLD Check 12	94.15	100.00	88.30	8.27	2
109	SLD Check 11	94.98	104.00	85.95	12.76	2
110	SLD Check 10	94.93	100.65	89.20	8.10	2
111	SLD Check 9	94.38	96.90	91.85	3.57	2
112	SLD Check 8	93.40	96.25	90.55	4.03	2
113	SLD Check 7	93.45	93.60	93.30	0.21	2
114	SLD Check 6	91.20	94.80	87.60	5.09	2
115	SLD Check 5	94.75	95.55	93.95	1.13	2
116	SLD Check 4	94.53	99.55	89.50	7.11	2
117	SLD Check 3	98.45	100.60	96.30	3.04	2
118	SLD Check 2	96.15	96.25	96.05	0.14	2
119	SLD Check 1	96.98	97.60	96.35	0.88	2
120	South Marsh 1 Intermediary	17.29	24.62	10.65	5.40	11
121	South Marsh 1 East	17.68	24.84	10.98	5.94	10
122	South Marsh 1 West	20.41	28.97	12.01	5.06	9
123	Ramona Lake NW Quad	46.68	46.68	46.68	na	1
124	Ramona Lake NE Quad	39.71	39.71	39.71	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	136.83	146.85	130.10	8.84	3
130	Marshall Rd Reservoir Entrance	25.55	40.57	13.59	9.87	7
131	Marshall Rd Reservoir Exit	30.61	43.26	22.00	8.47	7
132	Marshall Rd Res Pond 1W	24.78	37.29	13.06	9.54	5
133	Marshall Rd Res Pond 2E	25.49	36.54	15.37	8.52	5
135	Modesto ID Main Drain Spill	9.88	13.71	5.33	3.60	6

Ca (mg/L)

DO site number	Site name	Average of Ca mg/L	Max of Ca mg/L	Min of Ca mg/L	StdDev of Ca mg/L	Count of Ca mg/L
1	SJR at Channel Point	28.23	29.03	27.43	1.13	2
2	SJR at Dos Reis Lathrop	31.22	32.92	29.52	2.40	2
3	SJR at Old River	31.77	33.28	30.27	2.13	2
4	SJR at Mossdale	29.44	52.38	8.20	12.55	65
5	SJR at Vernalis	29.13	48.46	8.06	12.02	73
6	SJR at Maze	37.13	59.47	8.37	16.28	70
7	SJR at Patterson	50.21	84.17	8.83	20.22	75
8	SJR at Crows Landing	49.85	85.74	8.64	19.49	80
9	SJR at Fremont Ford	68.47	81.84	53.22	11.43	5
10	SJR at Lander Avenue	52.65	90.72	5.45	24.71	83
11	French Camp Slough	28.77	44.74	9.20	13.06	7
12	Stanislaus River at Caswell Park	9.12	15.00	6.33	1.63	67
13	Stanislaus River at Ripon	10.04	10.04	10.04	na	1
14	Tuolumne River at Shiloh Bridge	12.13	22.91	4.56	5.68	68
16	Merced River at River Road	13.42	40.98	4.69	8.49	67
17	Merced River near Stevenson	4.60	4.60	4.60	na	1
18	Mud Slough near Gustine	156.67	292.20	13.30	61.18	77
19	Salt Slough at Lander Avenue	69.41	120.50	43.43	16.48	103
20	Los Banos Creek at Highway 140	67.60	134.67	30.55	22.17	66
21	Orestimba Creek at River Road	52.80	94.77	11.29	21.36	58
22	Modesto ID Lateral 4 to SJR	15.53	28.01	4.88	10.59	6
23	Modesto ID Lateral 5 to Tuolumne	11.68	46.18	3.12	10.56	29
24	Modesto ID Lateral 6 to Stanislaus River	5.15	5.67	4.63	0.73	2
25	MID Main Drain to Stan. R. via Miller Lake	31.99	69.25	0.00	15.54	42
26	Turlock ID Highline Spill	3.82	4.04	3.60	0.31	2
27	Turlock ID Lateral 2 to SJR	8.26	19.42	0.00	8.18	4
28	Turlock ID Westport Drain Flow Station	60.10	112.78	13.56	25.02	50
29	Turlock ID Harding Drain	46.69	90.57	18.62	14.91	64
30	Turlock ID Lateral 6 & 7 at Levee	52.73	112.16	29.45	14.68	35
31	BCID - New Jerusalem Drain	164.55	200.85	126.60	26.60	8
32	EI Solvo WD - Grayson Drain	52.99	74.13	24.33	19.21	5
33	Hospital Creek	29.40	57.84	10.56	12.30	17
34	Ingram Creek Flow Station	62.16	151.16	17.99	29.86	44
35	Westley Wasteway Flow Station	33.54	43.27	29.27	4.53	7
36	Del Puerto Creek Flow Station	48.30	92.06	19.84	15.65	58
38	Marshall Road Drain	44.92	79.36	24.43	20.02	8
39	Salado Creek Flow Station	64.88	82.07	55.31	12.63	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	294.87	403.25	25.89	61.26	73
45	Volta Wasteway at Ingomar Grade	46.35	81.56	19.33	23.63	11
46	Mud Slough at Gun Club Road	81.49	118.70	45.32	26.86	11
47	Delta-Mendota Cal Hwy 140	20.30	23.34	17.96	2.76	3
48	FC-5 Grasslands Area Farmers	378.70	490.95	266.45	158.75	2
49	PE-14-Grasslands Area Farmers	350.00	413.40	286.60	89.66	2
50	San Luis Drain Site A (Check 18)	326.14	395.70	277.30	56.40	4
51	Arroyo Cal at Hwy 152	69.15	80.33	57.97	15.81	2
52	Salt Slough at Sand Dam	53.89	57.34	48.77	4.52	3
53	Salt Slough at Wolfsen Road	70.87	108.40	49.19	17.77	30
57	Ramona Lake Drain at Levee	76.48	102.75	41.82	14.38	29
59	SJR Laird Park	53.14	338.60	5.14	65.71	22
60	Moffit 1 South	56.04	87.55	34.49	17.26	19
61	Deadman's Slough	63.23	93.53	29.38	20.87	23
62	Mallard Slough	98.84	304.40	48.62	64.39	22
63	Inlet C Canal	46.82	112.37	24.48	21.56	27
64	Moran Drain	51.06	72.47	30.53	21.84	6
65	Spanish Grant Drain	65.53	87.78	41.11	20.50	7
66	ESWD Maze Blv. Drain	26.92	31.00	23.36	3.14	4
67	Newman Wasteway at Brazo Road	72.67	107.50	27.70	25.38	7
68	S. Lake Basin	83.82	106.60	56.21	23.16	5

DO site number	Site name	Average of Ca mg/L	Max of Ca mg/L	Min of Ca mg/L	StdDev of Ca mg/L	Count of Ca mg/L
69	Santa Fe Canal	15.88	15.88	15.88	na	1
80	South Marsh 1 Inlet	43.07	65.13	25.15	13.61	17
81	South Marsh 1 Outlet	42.30	63.67	24.59	10.56	19
82	South Marsh 3 Inlet	47.49	99.65	27.80	14.87	23
83	South Marsh 3 Outlet	46.48	63.20	34.17	9.05	26
84	SJR Garwood Bridge	30.32	30.32	30.32	na	1
86	Ramona Drain Apple Ave	70.72	143.64	27.43	30.66	9
87	Ramona Drain Prune Ave	59.43	72.42	51.63	11.33	3
88	Ramona Drain Apricot Ave	69.29	92.88	31.74	20.30	9
89	Ramona Drain Pomelo Ave	69.50	97.38	45.71	26.08	3
90	Ramona Drain Almond Ave	64.89	64.89	64.89	na	1
91	Paradise Drain Prune Ave	52.14	78.55	25.72	37.35	2
92	Paradise Drain Apricot Ave	88.86	199.05	54.87	50.67	7
93	Paradise Drain Pomelo Ave	108.98	193.10	53.61	74.06	3
94	Paradise Drain Almond Ave	89.71	205.00	52.10	53.24	7
95	Ramona Lake Entrance	87.81	121.93	53.37	17.29	16
96	WPF-VD-1	24.93	24.93	24.93	na	1
97	WPF-VD-2	25.97	25.97	25.97	na	1
98	WPF-VD-3	36.40	36.40	36.40	na	1
101	WPF-UD-IN	50.89	77.23	24.55	37.25	2
102	WPF-UD-OUT	47.25	69.50	25.00	31.46	2
103	SLD Check 18	315.53	351.60	279.45	51.02	2
104	SLD Check 16	319.75	350.05	289.45	42.85	2
105	SLD Check 15	321.23	353.00	289.45	44.94	2
106	SLD Check 14	312.73	344.45	281.00	44.87	2
107	SLD Check 13	316.80	355.65	277.95	54.94	2
108	SLD Check 12	314.33	342.50	286.15	39.85	2
109	SLD Check 11	309.73	348.85	270.60	55.33	2
110	SLD Check 10	302.33	321.25	283.40	26.76	2
111	SLD Check 9	301.33	321.05	281.60	27.90	2
112	SLD Check 8	300.80	319.80	281.80	26.87	2
113	SLD Check 7	302.18	313.10	291.25	15.45	2
114	SLD Check 6	286.15	305.55	266.75	27.44	2
115	SLD Check 5	294.88	298.90	290.85	5.69	2
116	SLD Check 4	286.88	314.25	259.50	38.71	2
117	SLD Check 3	298.15	315.00	281.30	23.83	2
118	SLD Check 2	287.93	302.65	273.20	20.82	2
119	SLD Check 1	290.10	298.70	281.50	12.16	2
120	South Marsh 1 Intermediary	41.42	61.50	25.28	13.00	11
121	South Marsh 1 East	41.00	56.73	24.98	13.34	10
122	South Marsh 1 West	52.12	64.90	31.30	10.49	9
123	Ramona Lake NW Quad	58.00	58.00	58.00	na	1
124	Ramona Lake NE Quad	73.02	73.02	73.02	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	135.08	139.55	131.30	4.17	3
130	Marshall Rd Reservoir Entrance	51.06	75.81	33.48	15.11	7
131	Marshall Rd Reservoir Exit	57.94	77.53	46.43	12.68	7
132	Marshall Rd Res Pond 1W	48.61	66.92	29.80	14.75	5
133	Marshall Rd Res Pond 2E	51.61	65.77	39.74	11.29	5
135	Modesto ID Main Drain Spill	22.65	31.08	13.33	7.38	6

DO site number	Site name	Average of Cl mg/L	Max of Cl mg/L	Min of Cl mg/L	StdDev of Cl mg/L	Count of Cl mg/L
1	SJR at Channel Point	62.76	66.57	58.96	5.39	2
2	SJR at Dos Reis Lathrop	68.40	68.76	68.03	0.52	2
3	SJR at Old River	70.62	71.91	69.32	1.83	2
4	SJR at Mossdale	64.07	123.30	7.18	34.33	65
5	SJR at Vernalis	62.88	112.35	6.31	31.94	73
6	SJR at Maze	89.68	160.16	7.20	47.79	70
7	SJR at Patterson	122.59	231.56	8.75	59.03	75
8	SJR at Crows Landing	124.98	244.86	11.25	58.24	80
9	SJR at Fremont Ford	223.31	299.81	147.79	54.90	5
10	SJR at Lander Avenue	157.10	334.14	2.20	99.06	83
11	French Camp Slough	58.05	103.55	3.21	41.06	7
12	Stanislaus River at Caswell Park	3.16	9.60	0.97	1.81	67
13	Stanislaus River at Ripon	2.98	2.98	2.98	na	1
14	Tuolumne River at Shiloh Bridge	10.67	35.70	0.90	8.02	68
16	Merced River at River Road	10.91	44.27	0.83	10.30	67
17	Merced River near Stevenson	0.89	0.89	0.89	na	1
18	Mud Slough near Gustine	350.12	640.71	10.65	141.19	77
19	Salt Slough at Lander Avenue	201.09	476.21	89.02	68.23	103
20	Los Banos Creek at Highway 140	191.22	459.14	56.49	92.35	66
21	Orestimba Creek at River Road	72.28	165.87	7.94	32.75	58
22	Modesto ID Lateral 4 to SJR	8.27	22.73	0.97	8.25	6
23	Modesto ID Lateral 5 to Tuolumne	12.14	80.78	0.71	18.77	29
24	Modesto ID Lateral 6 to Stanislaus River	2.87	3.00	2.74	0.19	2
25	MID Main Drain to Stan. R. via Miller Lake	19.71	173.00	0.00	27.32	42
26	Turlock ID Highline Spill	1.00	1.13	0.88	0.18	2
27	Turlock ID Lateral 2 to SJR	10.95	20.78	2.71	7.60	4
28	Turlock ID Westport Drain Flow Station	45.43	140.84	5.67	24.98	50
29	Turlock ID Harding Drain	82.54	176.73	8.00	37.36	64
30	Turlock ID Lateral 6 & 7 at Levee	46.04	97.75	0.00	19.07	36
31	BCID - New Jerusalem Drain	326.72	340.34	312.07	9.65	8
32	El Solyo WD - Grayson Drain	135.85	205.05	54.75	58.30	5
33	Hospital Creek	53.64	127.04	12.19	32.31	17
34	Ingram Creek Flow Station	135.28	323.26	22.57	71.02	44
35	Westley Wasteway Flow Station	83.81	108.85	68.53	13.34	7
36	Del Puerto Creek Flow Station	112.68	202.47	15.72	48.45	58
38	Marshall Road Drain	100.29	184.51	52.87	48.38	8
39	Salado Creek Flow Station	174.85	190.82	132.66	28.17	4
43	El Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	548.00	832.80	64.07	105.84	73
45	Volta Wasteway at Ingomar Grade	106.78	178.14	37.19	52.30	11
46	Mud Slough at Gun Club Road	271.28	539.92	97.93	149.58	11
47	Delta-Mendota Cal Hwy 140	91.13	117.19	49.55	36.39	3
48	FC-5 Grasslands Area Farmers	700.68	966.03	435.32	375.27	2
49	PE-14-Grasslands Area Farmers	673.57	770.21	576.92	136.68	2
50	San Luis Drain Site A (Check 18)	615.09	796.66	507.80	128.49	4
51	Arroyo Cal at Hwy 152	139.58	141.10	138.05	2.16	2
52	Salt Slough at Sand Dam	122.64	147.06	94.35	26.56	3
53	Salt Slough at Wolfsen Road	198.95	317.70	67.57	62.29	30
57	Ramona Lake Drain at Levee	170.39	259.80	114.48	40.89	29
59	SJR Laird Park	113.85	624.83	12.57	121.29	22
60	Moffit 1 South	143.91	255.63	73.76	58.20	19
61	Deadman's Slough	181.65	335.86	75.57	84.98	23
62	Mallard Slough	223.66	787.15	103.79	154.38	22
63	Inlet C Canal	106.13	226.51	40.51	51.98	27

DO site number	Site name	Average of Cl mg/L	Max of Cl mg/L	Min of Cl mg/L	StdDev of Cl mg/L	Count of Cl mg/L
64	Moran Drain	84.02	114.40	49.72	26.20	6
65	Spanish Grant Drain	103.89	144.10	71.58	28.19	7
66	ESWD Maze Blv. Drain	61.05	72.41	50.64	8.91	4
67	Newman Wasteway at Brazo Road	134.68	173.87	105.42	28.52	7
68	S. Lake Basin	292.30	425.08	62.64	174.38	5
69	Santa Fe Canal	41.45	41.45	41.45	na	1
80	South Marsh 1 Inlet	96.44	160.73	41.84	40.92	17
81	South Marsh 1 Outlet	95.16	168.00	47.74	35.28	19
82	South Marsh 3 Inlet	190.55	315.38	49.65	73.06	23
83	South Marsh 3 Outlet	201.80	347.86	107.46	65.73	26
84	SJR Garwood Bridge	68.21	68.21	68.21	na	1
86	Ramona Drain Apple Ave	147.50	192.52	60.08	52.51	9
87	Ramona Drain Prune Ave	90.22	128.34	60.78	34.60	3
88	Ramona Drain Apricot Ave	160.15	268.79	41.76	71.76	9
89	Ramona Drain Pomelo Ave	117.53	167.34	63.12	52.26	3
90	Ramona Drain Almond Ave	121.74	121.74	121.74	na	1
91	Paradise Drain Prune Ave	90.68	148.66	32.69	82.00	2
92	Paradise Drain Apricot Ave	196.49	433.78	104.84	110.18	7
93	Paradise Drain Pomelo Ave	222.28	413.26	102.51	167.16	3
94	Paradise Drain Almond Ave	205.14	414.87	101.98	98.44	7
95	Ramona Lake Entrance	191.40	267.28	115.24	42.85	16
96	WPF-VD-1	31.16	31.16	31.16	na	1
97	WPF-VD-2	33.34	33.34	33.34	na	1
98	WPF-VD-3	46.95	46.95	46.95	na	1
101	WPF-UD-IN	78.38	125.72	31.05	66.94	2
102	WPF-UD-OUT	77.55	123.23	31.87	64.60	2
103	SLD Check 18	576.14	623.18	529.09	66.54	2
104	SLD Check 16	604.18	643.60	564.77	55.74	2
105	SLD Check 15	610.07	646.21	573.94	51.10	2
106	SLD Check 14	611.00	652.66	569.34	58.92	2
107	SLD Check 13	601.77	644.11	559.44	59.88	2
108	SLD Check 12	607.16	641.97	572.35	49.23	2
109	SLD Check 11	605.68	657.58	553.79	73.39	2
110	SLD Check 10	618.67	640.04	597.31	30.21	2
111	SLD Check 9	595.20	600.72	589.69	7.80	2
112	SLD Check 8	585.16	585.33	584.99	0.24	2
113	SLD Check 7	587.20	592.01	582.39	6.80	2
114	SLD Check 6	575.25	577.03	573.47	2.51	2
115	SLD Check 5	595.38	630.28	560.49	49.35	2
116	SLD Check 4	602.03	606.13	597.93	5.79	2
117	SLD Check 3	627.70	635.99	619.40	11.73	2
118	SLD Check 2	623.11	641.70	604.51	26.30	2
119	SLD Check 1	609.47	624.36	594.57	21.07	2
120	South Marsh 1 Intermediary	115.42	314.28	44.37	79.43	11
121	South Marsh 1 East	96.49	165.10	45.19	48.06	10
122	South Marsh 1 West	119.15	200.68	54.31	46.90	9
123	Ramona Lake NW Quad	215.45	215.45	215.45	na	1
124	Ramona Lake NE Quad	166.16	166.16	166.16	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	620.41	681.66	582.11	53.59	3
130	Marshall Rd Reservoir Entrance	109.42	162.28	66.99	37.02	7
131	Marshall Rd Reservoir Exit	119.85	162.25	88.62	25.23	7
132	Marshall Rd Res Pond 1W	98.42	138.71	57.23	33.30	5
133	Marshall Rd Res Pond 2E	98.68	137.05	60.90	32.76	5
135	Modesto ID Main Drain Spill	9.96	18.16	5.28	4.62	6

SO4 (mg/L)

DO site number	Site name	Average of SO4 mg/L	Max of SO4 mg/L	Min of SO4 mg/L	StdDev of SO4 mg/L	Count of SO4 mg/L
1	SJR at Channel Point	57.15	57.28	57.03	0.18	2
2	SJR at Dos Reis Lathrop	64.74	66.69	62.79	2.76	2
3	SJR at Old River	69.13	70.88	67.37	2.48	2
4	SJR at Mossdale	57.73	99.79	8.41	26.00	65
5	SJR at Vernalis	57.19	98.38	7.96	24.88	73
6	SJR at Maze	82.34	159.90	8.69	38.75	70
7	SJR at Patterson	131.14	251.36	11.26	59.34	75
8	SJR at Crows Landing	139.43	294.73	16.64	64.68	80
9	SJR at Fremont Ford	163.93	211.81	114.00	37.55	5
10	SJR at Lander Avenue	81.97	192.70	2.76	48.80	83
11	French Camp Slough	60.54	97.80	4.51	35.63	7
12	Stanislaus River at Caswell Park	3.78	10.28	1.95	1.30	67
13	Stanislaus River at Ripon	4.30	4.30	4.30	na	1
14	Tuolumne River at Shiloh Bridge	6.19	13.49	1.76	3.45	68
16	Merced River at River Road	9.80	35.92	1.74	7.72	67
17	Merced River near Stevenson	1.78	1.78	1.78	na	1
18	Mud Slough near Gustine	724.23	1449.13	10.07	372.32	77
19	Salt Slough at Lander Avenue	180.62	430.52	73.29	66.08	103
20	Los Banos Creek at Highway 140	200.69	498.26	37.77	112.26	66
21	Orestimba Creek at River Road	99.38	207.47	16.26	49.17	58
22	Modesto ID Lateral 4 to SJR	7.52	13.09	1.74	4.93	6
23	Modesto ID Lateral 5 to Tuolumne	7.81	57.41	1.21	14.14	29
24	Modesto ID Lateral 6 to Stanislaus River	2.11	2.18	2.04	0.10	2
25	MID Main Drain to Stan. R. via Miller Lake	18.70	158.30	0.00	24.61	42
26	Turlock ID Highline Spill	1.64	1.66	1.62	0.03	2
27	Turlock ID Lateral 2 to SJR	6.43	10.77	2.50	3.66	4
28	Turlock ID Westport Drain Flow Station	38.52	84.23	8.48	20.62	50
29	Turlock ID Harding Drain	37.14	70.57	9.67	13.33	64
30	Turlock ID Lateral 6 & 7 at Levee	32.33	81.18	0.00	14.82	36
31	BCID - New Jerusalem Drain	465.26	524.09	419.85	40.35	8
32	El Solyo WD - Grayson Drain	114.94	174.53	27.59	62.05	5
33	Hospital Creek	50.82	108.82	15.52	31.47	17
34	Ingram Creek Flow Station	135.54	357.12	26.65	73.08	44
35	Westley Wasteway Flow Station	80.31	113.68	52.03	18.96	7
36	Del Puerto Creek Flow Station	128.84	281.41	21.20	57.94	58
38	Marshall Road Drain	126.17	274.27	40.53	83.10	8
39	Salado Creek Flow Station	193.93	268.87	164.74	50.12	4
43	El Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	1513.64	2107.61	43.87	304.15	73
45	Volta Wasteway at Ingomar Grade	85.31	163.04	23.05	53.65	11
46	Mud Slough at Gun Club Road	325.54	668.29	92.06	193.27	11
47	Delta-Mendota Cal Hwy 140	29.00	42.49	21.27	11.72	3
48	FC-5 Grasslands Area Farmers	1943.54	2058.77	1828.31	162.96	2
49	PE-14-Grasslands Area Farmers	1895.58	2030.76	1760.40	191.17	2
50	San Luis Drain Site A (Check 18)	1610.31	1978.62	1343.62	302.85	4
51	Arroyo Cal at Hwy 152	248.02	284.25	211.78	51.24	2
52	Salt Slough at Sand Dam	98.62	123.11	78.37	22.67	3
53	Salt Slough at Wolfsen Road	191.63	328.16	60.70	69.90	30
57	Ramona Lake Drain at Levee	248.66	372.15	164.78	56.39	29
59	SJR Laird Park	173.15	1794.51	15.24	364.60	22
60	Moffit 1 South	98.39	206.83	39.91	52.47	19
61	Deadman's Slough	140.06	299.59	48.05	80.42	23
62	Mallard Slough	246.28	1388.96	74.78	334.52	22
63	Inlet C Canal	84.28	201.04	37.43	43.91	27

DO site number	Site name	Average of SO4 mg/L	Max of SO4 mg/L	Min of SO4 mg/L	StdDev of SO4 mg/L	Count of SO4 mg/L
64	Moran Drain	81.01	120.87	30.73	39.77	6
65	Spanish Grant Drain	150.41	231.04	74.29	62.07	7
66	ESWD Maze Blv. Drain	46.81	74.74	30.62	20.39	4
67	Newman Wasteway at Brazo Road	139.21	225.38	30.31	62.64	7
68	S. Lake Basin	361.14	649.23	43.79	265.68	5
69	Santa Fe Canal	39.23	39.23	39.23	na	1
80	South Marsh 1 Inlet	69.97	120.07	37.98	28.96	17
81	South Marsh 1 Outlet	64.33	118.55	39.97	24.07	19
82	South Marsh 3 Inlet	107.77	242.97	44.34	48.21	23
83	South Marsh 3 Outlet	115.73	300.87	57.21	57.70	26
84	SJR Garwood Bridge	107.03	107.03	107.03	na	1
86	Ramona Drain Apple Ave	188.53	446.04	70.08	105.16	9
87	Ramona Drain Prune Ave	146.62	201.12	118.77	47.20	3
88	Ramona Drain Apricot Ave	190.59	275.19	76.51	64.33	9
89	Ramona Drain Pomelo Ave	159.24	199.62	104.87	48.90	3
90	Ramona Drain Almond Ave	172.85	172.85	172.85	na	1
91	Paradise Drain Prune Ave	124.09	214.22	33.96	127.46	2
92	Paradise Drain Apricot Ave	267.74	707.76	142.25	198.38	7
93	Paradise Drain Pomelo Ave	370.05	713.61	138.22	303.53	3
94	Paradise Drain Almond Ave	268.67	713.07	137.82	202.36	7
95	Ramona Lake Entrance	279.10	373.49	173.27	58.05	16
96	WPF-VD-1	57.34	57.34	57.34	na	1
97	WPF-VD-2	58.93	58.93	58.93	na	1
98	WPF-VD-3	72.88	72.88	72.88	na	1
101	WPF-UD-IN	149.80	242.77	56.84	131.47	2
102	WPF-UD-OUT	125.64	193.62	57.66	96.14	2
103	SLD Check 18	1546.15	1756.79	1335.50	297.90	2
104	SLD Check 16	1625.46	1807.09	1443.84	256.86	2
105	SLD Check 15	1643.12	1818.99	1467.26	248.72	2
106	SLD Check 14	1626.20	1822.74	1429.66	277.95	2
107	SLD Check 13	1615.75	1809.66	1421.84	274.23	2
108	SLD Check 12	1631.62	1799.08	1464.15	236.83	2
109	SLD Check 11	1623.23	1859.56	1386.90	334.22	2
110	SLD Check 10	1636.22	1801.45	1470.98	233.68	2
111	SLD Check 9	1626.44	1684.40	1568.48	81.96	2
112	SLD Check 8	1584.27	1661.87	1506.66	109.75	2
113	SLD Check 7	1576.96	1635.75	1518.18	83.14	2
114	SLD Check 6	1521.97	1627.86	1416.08	149.75	2
115	SLD Check 5	1618.42	1623.73	1613.11	7.51	2
116	SLD Check 4	1606.79	1765.60	1447.98	224.59	2
117	SLD Check 3	1684.03	1779.84	1588.22	135.50	2
118	SLD Check 2	1641.12	1705.20	1577.05	90.62	2
119	SLD Check 1	1636.76	1649.72	1623.81	18.32	2
120	South Marsh 1 Intermediary	86.47	263.21	40.32	63.25	11
121	South Marsh 1 East	60.87	102.55	39.30	24.75	10
122	South Marsh 1 West	57.67	90.62	36.85	19.67	9
123	Ramona Lake NW Quad	314.26	314.26	314.26	na	1
124	Ramona Lake NE Quad	257.63	257.63	257.63	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	797.33	850.68	753.91	49.15	3
130	Marshall Rd Reservoir Entrance	135.95	211.85	57.29	60.72	7
131	Marshall Rd Reservoir Exit	178.40	236.41	130.41	40.18	7
132	Marshall Rd Res Pond 1W	141.99	203.36	76.99	54.89	5
133	Marshall Rd Res Pond 2E	145.60	206.92	93.40	51.50	5
135	Modesto ID Main Drain Spill	10.44	13.31	5.93	3.25	6

Br (mg/L)

DO site number	Site name	Average of Br (mg/L)	Max of Br (mg/L)	Min of Br (mg/L)	StdDev of Br (mg/L)	Count of Br (mg/L)
1	SJR at Channel Point	0.67	0.87	0.46	0.29	2
2	SJR at Dos Reis Lathrop	0.68	0.73	0.64	0.06	2
3	SJR at Old River	0.93	1.00	0.86	0.10	2
4	SJR at Mossdale	0.67	1.66	0.10	0.43	65
5	SJR at Vernalis	0.52	1.48	0.09	0.30	73
6	SJR at Maze	0.87	3.54	0.13	0.60	70
7	SJR at Patterson	1.16	2.68	0.13	0.68	75
8	SJR at Crows Landing	1.19	3.23	0.11	0.70	80
9	SJR at Fremont Ford	1.15	1.33	0.75	0.24	5
10	SJR at Lander Avenue	1.04	4.22	0.08	0.73	83
11	French Camp Slough	0.46	0.78	0.02	0.27	7
12	Stanislaus River at Caswell Park	0.02	0.27	0.00	0.06	67
13	Stanislaus River at Ripon	0.00	0.00	0.00	na	1
14	Tuolumne River at Shiloh Bridge	0.19	0.64	0.00	0.18	68
16	Merced River at River Road	0.18	0.79	0.00	0.21	67
17	Merced River near Stevenson	0.00	0.00	0.00	na	1
18	Mud Slough near Gustine	3.60	9.02	0.14	2.01	77
19	Salt Slough at Lander Avenue	1.66	4.79	0.28	0.89	103
20	Los Banos Creek at Highway 140	1.94	4.59	0.28	1.18	66
21	Orestimba Creek at River Road	1.03	2.75	0.16	0.58	58
22	Modesto ID Lateral 4 to SJR	0.47	1.37	0.10	0.49	6
23	Modesto ID Lateral 5 to Tuolumne	0.13	0.88	0.00	0.23	29
24	Modesto ID Lateral 6 to Stanislaus River	0.00	0.00	0.00	0.00	2
25	MID Main Drain to Stan. R. via Miller Lake	0.35	2.06	0.00	0.47	42
26	Turlock ID Highline Spill	0.00	0.00	0.00	0.00	2
27	Turlock ID Lateral 2 to SJR	0.12	0.37	0.00	0.18	4
28	Turlock ID Westport Drain Flow Station	0.86	2.54	0.00	0.77	50
29	Turlock ID Harding Drain	0.71	1.92	0.00	0.54	64
30	Turlock ID Lateral 6 & 7 at Levee	0.79	2.29	0.00	0.53	35
31	BCID - New Jerusalem Drain	2.80	4.26	0.00	1.36	9
32	EI Solvo WD - Grayson Drain	0.94	1.62	0.40	0.50	5
33	Hospital Creek	0.38	1.22	0.00	0.33	17
34	Ingram Creek Flow Station	1.44	3.49	0.00	0.93	44
35	Westley Wasteway Flow Station	0.78	1.10	0.38	0.28	7
36	Del Puerto Creek Flow Station	1.10	2.95	0.00	0.70	58
38	Marshall Road Drain	0.77	1.99	0.24	0.61	8
39	Salado Creek Flow Station	1.26	2.15	0.78	0.61	4
43	EI Solvo Pumping Station	na	na	na	na	na
44	San Luis Drain End	6.11	13.40	0.52	3.00	73
45	Volta Wasteway at Ingomar Grade	1.16	3.85	0.29	1.13	11
46	Mud Slough at Gun Club Road	2.35	6.16	0.89	1.68	11
47	Delta-Mendota Cal Hwy 140	0.61	0.80	0.47	0.17	3
48	FC-5 Grasslands Area Farmers	11.59	11.74	11.45	0.20	2
49	PE-14-Grasslands Area Farmers	6.39	7.47	5.31	1.53	2
50	San Luis Drain Site A (Check 18)	8.31	9.72	6.84	1.56	4
51	Arroyo Cal at Hwy 152	1.79	2.48	1.09	0.98	2
52	Salt Slough at Sand Dam	1.25	2.32	0.69	0.93	3
53	Salt Slough at Wolfsen Road	1.64	3.86	0.62	0.77	30
57	Ramona Lake Drain at Levee	1.70	4.57	0.34	1.14	29
59	SJR Laird Park	1.25	10.47	0.12	2.12	22
60	Moffit 1 South	0.93	3.39	0.35	0.68	19
61	Deadman's Slough	1.50	4.14	0.35	0.94	23
62	Mallard Slough	1.61	5.11	0.46	1.18	22
63	Inlet C Canal	0.84	2.54	0.17	0.50	27

DO site number	Site name	Average of Br (mg/L)	Max of Br (mg/L)	Min of Br (mg/L)	StdDev of Br (mg/L)	Count of Br (mg/L)
64	Moran Drain	1.13	1.77	0.54	0.54	6
65	Spanish Grant Drain	0.89	2.07	0.15	0.76	7
66	ESWD Maze Blv. Drain	0.58	1.04	0.37	0.31	4
67	Newman Wasteway at Brazo Road	1.34	2.15	0.40	0.55	7
68	S. Lake Basin	2.69	4.54	0.83	1.44	5
69	Santa Fe Canal	0.51	0.51	0.51	na	1
80	South Marsh 1 Inlet	1.00	3.30	0.20	0.74	17
81	South Marsh 1 Outlet	0.73	1.64	0.21	0.38	19
82	South Marsh 3 Inlet	1.32	5.39	0.47	1.04	23
83	South Marsh 3 Outlet	1.14	1.96	0.52	0.44	26
84	SJR Garwood Bridge	0.00	0.00	0.00	na	1
86	Ramona Drain Apple Ave	1.27	2.42	0.31	0.76	9
87	Ramona Drain Prune Ave	2.15	3.92	1.21	1.53	3
88	Ramona Drain Apricot Ave	1.49	2.63	0.00	1.00	9
89	Ramona Drain Pomelo Ave	1.90	2.54	1.09	0.74	3
90	Ramona Drain Almond Ave	1.95	1.95	1.95	na	1
91	Paradise Drain Prune Ave	1.49	2.35	0.63	1.22	2
92	Paradise Drain Apricot Ave	2.07	3.23	1.22	0.85	7
93	Paradise Drain Pomelo Ave	2.66	3.72	1.85	0.96	3
94	Paradise Drain Almond Ave	3.40	11.37	1.24	3.55	7
95	Ramona Lake Entrance	2.17	5.38	0.81	1.26	16
96	WPF-VD-1	0.32	0.32	0.32	na	1
97	WPF-VD-2	0.38	0.38	0.38	na	1
98	WPF-VD-3	0.83	0.83	0.83	na	1
101	WPF-UD-IN	1.92	3.39	0.46	2.07	2
102	WPF-UD-OUT	1.00	1.43	0.57	0.61	2
103	SLD Check 18	11.78	14.69	8.87	4.12	2
104	SLD Check 16	9.50	13.28	5.73	5.34	2
105	SLD Check 15	10.02	13.79	6.25	5.33	2
106	SLD Check 14	7.36	10.49	4.23	4.43	2
107	SLD Check 13	5.63	7.64	3.61	2.85	2
108	SLD Check 12	7.86	8.19	7.54	0.46	2
109	SLD Check 11	8.04	8.76	7.33	1.01	2
110	SLD Check 10	7.92	8.22	7.62	0.42	2
111	SLD Check 9	8.00	8.98	7.03	1.38	2
112	SLD Check 8	6.98	7.32	6.63	0.49	2
113	SLD Check 7	6.47	8.86	4.08	3.38	2
114	SLD Check 6	7.40	7.54	7.25	0.21	2
115	SLD Check 5	7.04	9.58	4.51	3.59	2
116	SLD Check 4	8.65	11.30	5.99	3.75	2
117	SLD Check 3	8.75	13.07	4.43	6.11	2
118	SLD Check 2	3.96	4.57	3.35	0.86	2
119	SLD Check 1	7.24	11.05	3.42	5.39	2
120	South Marsh 1 Intermediary	0.69	1.51	0.17	0.46	11
121	South Marsh 1 East	0.69	1.64	0.23	0.45	10
122	South Marsh 1 West	1.19	2.56	0.32	0.93	9
123	Ramona Lake NW Quad	0.76	0.76	0.76	na	1
124	Ramona Lake NE Quad	0.64	0.64	0.64	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	4.25	6.44	2.43	2.04	3
130	Marshall Rd Reservoir Entrance	1.37	4.44	0.16	1.45	7
131	Marshall Rd Reservoir Exit	2.17	6.46	0.70	2.00	7
132	Marshall Rd Res Pond 1W	1.46	3.52	0.28	1.22	5
133	Marshall Rd Res Pond 2E	1.26	3.36	0.00	1.30	5
135	Modesto ID Main Drain Spill	0.32	0.77	0.00	0.37	6

Silica (SiO₄-Si) mg/L

DO site number	Site name	Average of Dissolved Si, mg/L	Max of Dissolved Si, mg/L	Min of Dissolved Si, mg/L	StdDev of Dissolved Si, mg/L	Count of Dissolved Si, mg/L
1	SJR at Channel Point	4.28	4.28	4.28	na	1
2	SJR at Dos Reis Lathrop	4.40	4.40	4.40	na	1
3	SJR at Old River	4.39	4.39	4.39	na	1
4	SJR at Mossdale	5.39	8.37	3.13	1.58	24
5	SJR at Vernalis	6.15	8.61	2.76	1.58	30
6	SJR at Maze	7.15	9.83	4.12	1.49	29
7	SJR at Patterson	7.58	10.51	1.77	2.05	31
8	SJR at Crows Landing	6.67	10.35	2.16	2.06	33
9	SJR at Fremont Ford	8.08	10.57	4.62	3.09	3
10	SJR at Lander Avenue	9.23	14.46	0.38	3.33	33
11	French Camp Slough	4.36	4.36	4.36	na	1
12	Stanislaus River at Caswell Park	4.99	6.78	1.51	1.53	24
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	7.54	9.83	1.37	2.34	24
16	Merced River at River Road	5.33	7.34	0.77	1.75	24
17	Merced River near Stevenson	na	na	na	na	na
18	Mud Slough near Gustine	4.72	11.51	0.93	2.78	31
19	Salt Slough at Lander Avenue	8.47	11.22	2.10	2.17	36
20	Los Banos Creek at Highway 140	6.60	14.12	2.64	2.92	18
21	Orestimba Creek at River Road	7.16	9.54	4.53	1.34	20
22	Modesto ID Lateral 4 to SJR	3.95	3.95	3.95	na	1
23	Modesto ID Lateral 5 to Tuolumne	5.52	5.52	5.52	na	1
24	Modesto ID Lateral 6 to Stanislaus River	0.53	0.53	0.53	na	1
25	MID Main Drain to Stan. R. via Miller Lake	8.18	15.08	2.39	3.25	19
26	Turlock ID Highline Spill	0.38	0.38	0.38	na	1
27	Turlock ID Lateral 2 to SJR	3.07	4.26	1.46	1.45	3
28	Turlock ID Westport Drain Flow Station	13.79	23.35	4.53	5.05	23
29	Turlock ID Harding Drain	15.41	26.28	3.96	5.01	24
30	Turlock ID Lateral 6 & 7 at Levee	11.82	25.52	3.44	5.42	22
31	BCID - New Jerusalem Drain	16.33	19.42	12.14	3.54	4
32	EI Solyo WD - Grayson Drain	6.74	7.92	5.41	1.26	3
33	Hospital Creek	4.52	4.75	4.30	0.32	2
34	Ingram Creek Flow Station	6.28	10.63	0.86	2.21	24
35	Westley Wasteway Flow Station	4.12	4.24	3.99	0.18	2
36	Del Puerto Creek Flow Station	6.24	8.47	2.75	1.55	23
38	Marshall Road Drain	5.26	6.26	3.71	1.36	3
39	Salado Creek Flow Station	6.73	9.07	3.48	2.40	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	3.10	9.95	0.05	2.88	24
45	Volta Wasteway at Ingomar Grade	5.29	5.29	5.29	0.00	2
46	Mud Slough at Gun Club Road	6.03	6.03	6.03	0.00	2
47	Delta-Mendota Cal Hwy 140	5.79	6.67	4.12	1.45	3
48	FC-5 Grasslands Area Farmers	na	na	na	na	na
49	PE-14-Grasslands Area Farmers	na	na	na	na	na
50	San Luis Drain Site A (Check 18)	7.22	7.22	7.22	na	1
51	Arroyo Cal at Hwy 152	4.38	4.90	3.87	0.73	2
52	Salt Slough at Sand Dam	6.88	6.91	6.86	0.03	2
53	Salt Slough at Wolfsen Road	8.20	10.94	6.59	2.17	5
54	Los Banos Creek at Ingomar Grade	na	na	na	na	na
57	Ramona Lake Drain at Levee	5.03	7.09	2.55	1.48	15
59	SJR Laird Park	na	na	na	na	na
60	Moffit 1 South	6.22	6.22	6.22	0.00	2
61	Deadman's Slough	4.24	11.20	0.24	4.79	4
62	Mallard Slough	5.08	7.71	3.77	2.27	3
63	Inlet C Canal	7.93	10.55	5.73	2.56	4

DO site number	Site name	Average of Dissolved Si, mg/L	Max of Dissolved Si, mg/L	Min of Dissolved Si, mg/L	StdDev of Dissolved Si, mg/L	Count of Dissolved Si, mg/L
64	Moran Drain	5.71	6.63	4.86	0.89	3
65	Spanish Grant Drain	5.75	7.30	2.88	2.49	3
66	ESWD Maze Blv. Drain	na	na	na	na	na
67	Newman Wasteway at Brazo Road	7.26	7.68	6.82	0.43	3
68	S. Lake Basin	8.41	8.41	8.41	0.00	2
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	9.96	10.20	9.73	0.33	2
81	South Marsh 1 Outlet	8.92	10.14	7.71	1.72	2
82	South Marsh 3 Inlet	12.70	15.27	10.20	2.39	4
83	South Marsh 3 Outlet	11.50	14.27	6.89	3.60	6
84	SJR Garwood Bridge	na	na	na	na	na
86	Ramona Drain Apple Ave	11.45	17.00	8.34	4.12	6
87	Ramona Drain Prune Ave	na	na	na	na	na
88	Ramona Drain Apricot Ave	9.19	9.70	8.36	0.47	6
89	Ramona Drain Pomelo Ave	na	na	na	na	na
90	Ramona Drain Almond Ave	na	na	na	na	na
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	8.70	9.12	7.94	0.52	4
93	Paradise Drain Pomelo Ave	na	na	na	na	na
94	Paradise Drain Almond Ave	8.50	9.36	7.57	0.76	5
95	Ramona Lake Entrance	6.97	15.85	2.36	3.22	15
96	WPF-VD-1	na	na	na	na	na
97	WPF-VD-2	na	na	na	na	na
98	WPF-VD-3	na	na	na	na	na
101	WPF-UD-IN	na	na	na	na	na
102	WPF-UD-OUT	na	na	na	na	na
103	SLD Check 18	7.04	7.04	7.04	na	1
104	SLD Check 16	5.09	5.09	5.09	na	1
105	SLD Check 15	6.78	6.78	6.78	na	1
106	SLD Check 14	6.40	6.40	6.40	na	1
107	SLD Check 13	5.07	5.07	5.07	na	1
108	SLD Check 12	5.88	5.88	5.88	na	1
109	SLD Check 11	5.55	5.55	5.55	na	1
110	SLD Check 10	4.68	4.68	4.68	na	1
111	SLD Check 9	4.11	4.11	4.11	na	1
112	SLD Check 8	4.09	4.09	4.09	na	1
113	SLD Check 7	4.00	4.00	4.00	na	1
114	SLD Check 6	3.34	3.34	3.34	na	1
115	SLD Check 5	2.68	2.68	2.68	na	1
116	SLD Check 4	3.11	3.11	3.11	na	1
117	SLD Check 3	2.77	2.77	2.77	na	1
118	SLD Check 2	2.75	2.75	2.75	na	1
119	SLD Check 1	3.12	3.12	3.12	na	1
120	South Marsh 1 Intermediary	10.04	10.17	9.90	0.19	2
121	South Marsh 1 East	9.72	10.08	9.35	0.52	2
122	South Marsh 1 West	19.84	22.36	17.33	3.56	2
123	Ramona Lake NW Quad	0.71	0.71	0.71	na	1
124	Ramona Lake NE Quad	4.93	4.93	4.93	na	1
125	Ramona Lake SW Quad	na	na	na	na	na
126	Ramona Lake SE Quad	na	na	na	na	na
129	Hollow Tree drain	5.34	5.34	5.34	0.00	2
130	Marshall Rd Reservoir Entrance	5.84	9.12	3.76	2.07	7
131	Marshall Rd Reservoir Exit	5.29	10.01	1.19	3.17	7
132	Marshall Rd Res Pond 1W	4.97	9.13	1.88	2.67	5
133	Marshall Rd Res Pond 2E	5.73	8.92	4.35	1.96	5
135	Modesto ID Main Drain Spill	8.79	13.18	3.59	3.89	6

254 absorbance (estimate of THM formation)

DO site number	Site name	Average of Abs. at 254 nm (w/1 nm slit)	Max of Abs. at 254 nm (w/1 nm slit)	Min of Abs. at 254 nm (w/1 nm slit)	StdDev of Abs. at 254 nm (w/1 nm slit)	Count of Abs. at 254 nm (w/1 nm slit)
1	SJR at Channel Point	0.052	0.052	0.052	na	1
2	SJR at Dos Reis Lathrop	0.043	0.043	0.043	na	1
3	SJR at Old River	0.046	0.046	0.046	na	1
4	SJR at Mossdale	0.070	0.138	0.000	0.026	33
5	SJR at Vernalis	0.078	0.234	0.033	0.037	38
6	SJR at Maze	0.093	0.361	0.038	0.051	37
7	SJR at Patterson	0.113	0.391	0.044	0.055	40
8	SJR at Crows Landing	0.118	0.326	0.072	0.041	48
9	SJR at Fremont Ford	0.140	0.172	0.110	0.025	4
10	SJR at Lander Avenue	0.144	0.325	0.042	0.051	47
11	French Camp Slough	0.135	0.423	0.023	0.136	7
12	Stanislaus River at Caswell Park	0.061	0.489	0.000	0.082	32
13	Stanislaus River at Ripon	na	na	na	na	na
14	Tuolumne River at Shiloh Bridge	0.075	0.210	0.000	0.044	33
16	Merced River at River Road	0.060	0.301	0.000	0.054	32
17	Merced River near Stevinson	na	na	na	na	na
18	Mud Slough near Gustine	0.229	1.481	0.039	0.210	45
19	Salt Slough at Lander Avenue	0.159	0.314	0.075	0.042	51
20	Los Banos Creek at Highway 140	0.345	0.878	0.181	0.158	32
21	Orestimba Creek at River Road	0.117	0.422	0.020	0.083	29
22	Modesto ID Lateral 4 to SJR	0.059	0.059	0.059	na	1
23	Modesto ID Lateral 5 to Tuolumne	0.048	0.092	0.000	0.046	3
24	Modesto ID Lateral 6 to Stanislaus River	0.124	0.124	0.124	na	1
25	MID Main Drain to Stan. R. via Miller Lake	0.152	0.226	0.024	0.041	24
26	Turlock ID Highline Spill	0.058	0.058	0.058	na	1
27	Turlock ID Lateral 2 to SJR	0.040	0.047	0.033	0.007	3
28	Turlock ID Westport Drain Flow Station	0.081	0.403	0.000	0.073	25
29	Turlock ID Harding Drain	0.089	0.150	0.000	0.030	33
30	Turlock ID Lateral 6 & 7 at Levee	0.139	0.284	0.017	0.055	24
31	BCID - New Jerusalem Drain	0.030	0.053	0.000	0.019	5
32	EI Solyo WD - Grayson Drain	0.088	0.105	0.065	0.021	3
33	Hospital Creek	0.163	0.204	0.140	0.036	3
34	Ingram Creek Flow Station	0.118	0.709	0.044	0.121	26
35	Westley Wasteway Flow Station	0.086	0.110	0.062	0.033	2
36	Del Puerto Creek Flow Station	0.112	0.352	0.029	0.053	29
38	Marshall Road Drain	0.144	0.228	0.024	0.096	4
39	Salado Creek Flow Station	0.273	0.513	0.173	0.161	4
43	EI Solyo Pumping Station	na	na	na	na	na
44	San Luis Drain End	0.106	0.164	0.042	0.027	38
45	Volta Wasteway at Ingomar Grade	0.071	0.115	0.000	0.036	9
46	Mud Slough at Gun Club Road	0.292	0.570	0.107	0.149	9
47	Delta-Mendota Cal Hwy 140	0.083	0.102	0.065	0.019	3
48	FC-5 Grasslands Area Farmers	na	na	na	na	na
49	PE-14-Grasslands Area Farmers	na	na	na	na	na
50	San Luis Drain Site A (Check 18)	0.137	0.137	0.137	na	1
51	Arroyo Cal at Hwy 152	0.163	0.174	0.153	0.015	2
52	Salt Slough at Sand Dam	0.155	0.172	0.138	0.024	2
53	Salt Slough at Wolfsen Road	0.170	0.287	0.092	0.046	14
54	Los Banos Creek at Ingomar Grade	na	na	na	na	na
57	Ramona Lake Drain at Levee	0.172	0.217	0.024	0.044	22
59	SJR Laird Park	0.107	0.107	0.107	na	1
60	Moffit 1 South	0.348	0.425	0.178	0.082	8
61	Deadman's Slough	0.277	0.480	0.157	0.114	13
62	Mallard Slough	0.430	1.192	0.240	0.286	10
63	Inlet C Canal	0.097	0.164	0.009	0.050	13

DO site number	Site name	Average of Abs. at 254 nm (w/1 nm slit)	Max of Abs. at 254 nm (w/1 nm slit)	Min of Abs. at 254 nm (w/1 nm slit)	StdDev of Abs. at 254 nm (w/1 nm slit)	Count of Abs. at 254 nm (w/1 nm slit)
64	Moran Drain	0.076	0.120	0.039	0.041	3
65	Spanish Grant Drain	0.143	0.191	0.097	0.047	3
66	ESWD Maze Blv. Drain	na	na	na	na	na
67	Newman Wasteway at Brazo Road	0.151	0.263	0.079	0.099	3
68	S. Lake Basin	0.330	0.590	0.137	0.234	3
69	Santa Fe Canal	na	na	na	na	na
80	South Marsh 1 Inlet	0.087	0.169	0.007	0.062	8
81	South Marsh 1 Outlet	0.220	0.416	0.062	0.136	10
82	South Marsh 3 Inlet	0.270	0.423	0.106	0.111	12
83	South Marsh 3 Outlet	0.333	0.592	0.030	0.130	15
84	SJR Garwood Bridge	na	na	na	na	na
86	Ramona Drain Apple Ave	0.217	0.294	0.127	0.062	5
87	Ramona Drain Prune Ave	na	na	na	na	na
88	Ramona Drain Apricot Ave	0.208	0.245	0.181	0.024	6
89	Ramona Drain Pomelo Ave	na	na	na	na	na
90	Ramona Drain Almond Ave	na	na	na	na	na
91	Paradise Drain Prune Ave	na	na	na	na	na
92	Paradise Drain Apricot Ave	0.154	0.186	0.104	0.035	4
93	Paradise Drain Pomelo Ave	na	na	na	na	na
94	Paradise Drain Almond Ave	0.154	0.189	0.123	0.023	5
95	Ramona Lake Entrance	0.177	0.211	0.095	0.027	16
96	WPF-VD-1	na	na	na	na	na
97	WPF-VD-2	na	na	na	na	na
98	WPF-VD-3	na	na	na	na	na
101	WPF-UD-IN	na	na	na	na	na
102	WPF-UD-OUT	na	na	na	na	na
103	SLD Check 18	0.134	0.134	0.134	na	1
104	SLD Check 16	0.131	0.131	0.131	na	1
105	SLD Check 15	0.130	0.130	0.130	na	1
106	SLD Check 14	0.134	0.134	0.134	na	1
107	SLD Check 13	0.133	0.133	0.133	na	1
108	SLD Check 12	0.131	0.131	0.131	na	1
109	SLD Check 11	0.118	0.118	0.118	na	1
110	SLD Check 10	0.116	0.116	0.116	na	1
111	SLD Check 9	0.111	0.111	0.111	na	1
112	SLD Check 8	0.110	0.110	0.110	na	1
113	SLD Check 7	0.104	0.104	0.104	na	1
114	SLD Check 6	0.103	0.103	0.103	na	1
115	SLD Check 5	0.109	0.109	0.109	na	1
116	SLD Check 4	0.109	0.109	0.109	na	1
117	SLD Check 3	0.109	0.109	0.109	na	1
118	SLD Check 2	0.110	0.110	0.110	na	1
119	SLD Check 1	0.117	0.117	0.117	na	1
120	South Marsh 1 Intermediary	0.100	0.173	0.024	0.044	8
121	South Marsh 1 East	0.169	0.528	0.047	0.155	9
122	South Marsh 1 West	0.447	0.710	0.199	0.174	9
123	Ramona Lake NW Quad	0.223	0.257	0.189	0.048	2
124	Ramona Lake NE Quad	0.181	0.182	0.180	0.001	2
125	Ramona Lake SW Quad	0.197	0.197	0.197	na	1
126	Ramona Lake SE Quad	0.189	0.189	0.189	na	1
129	Hollow Tree drain	0.448	0.503	0.386	0.059	3
130	Marshall Rd Reservoir Entrance	0.108	0.172	0.061	0.034	7
131	Marshall Rd Reservoir Exit	0.103	0.119	0.074	0.015	7
132	Marshall Rd Res Pond 1W	0.105	0.140	0.073	0.024	5
133	Marshall Rd Res Pond 2E	0.107	0.150	0.069	0.029	5
135	Modesto ID Main Drain Spill	0.166	0.363	0.087	0.106	6